2852

Bury, Greenhill Road

1934 – 40

780502

Section **A** for the entry of Dai

AIR MINISTRY.—

FOR OFFICIAL USE.

GANIZATION.

2852/5.

VIII/S France/3

inp 1934

FORM 1090.

REGISTE

Kept at BURY (GRE

in the County of LANCASTE

Diameter of Funnel of Gauge 5

Height of top of Gauge above Ground

,, Ground ,, Sea Level

THE MORNING MEASURE

An observer who does not conform to this
year in the space on the right of this pa

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g

Jan. 1, following

Date	Jan.	Feb.	March	Ap							v.	Dec.	~~Date~~
	in.	in.	in.	in								in.	
1								·03	·24	·04	·04	·44	1
2								·54	·04	–	·28	·54	2
3								·19	tr.	·26	·11	·07	3
4								·07	·01	·9	–	·91	4
5								·60	tr.	·19	tr	·18	5
6								·11	–	·3	–	·36	6
7								–	–	·06	·4	·44	7
8								·06	·02	·1	·68	tr	8
9								·13	tr.	tr.	·28	·01	9
10								·35	tr.	·43	·03	–	10
11								·34	–	tr.	·01	·16	11
12								·07	–	·04	–	·04	12
13								trace	–	·25	–	–	13
14								–	–	·41	–	·15	14
15								·11	·18	tr	tr	·28	15
16								–	–	·02	tr.	·04	16
17								trace	·31	·06	–	·30	17
18								·07	–	–	–	·24	18
19								trace	·42	·2	[illegible]	tr	19
20								·02	·14	·11	·01	tr.	20
21								·06	·08	·09	–	tr	21
22								·18	·6	·14	tr	tr	22
23								·03	tr.	·21	·02	·12	23
24								–	·34	·21	–	tr.	24
25							·11	–	·24	·32	–	·46	25
26							·18	–	·21	·03	·01	·04	26
27							·26	–	tr	·38	·02	·36	27
28							·13	·24	tr	·41	–	·82	28
29							·1	·68	·46	·12	–	·12	29
30		X					·14	·04	·01	·2	–	·02	30
31		X		X		X	·21	·02	X	·12	X	·15	31
TOTAL							imp ~~1·13~~	3·88	3·66	5·66	1·89	6·40	YEAR'S TOTAL inp
*Days with ·01 in. or more.							~~7~~	21	15	26	12	23	–
*Days with ·04 in. or more.							~~[illegible]~~	15	13	24	5	21	–

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X RICHARD MOORE ESQ X

(Signed) [P.T.O.

*See Instruction 2 (*f*) on other side.

Section **A** for the entry of Daily Observations. ~~COPY~~ FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

2852/5

VIII/5 Lancs/3

C imp 1934

Good agreement with neighbours

Kept at BURY (GREENHILL RD.)
in the County of LANCASTER
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 2 ft 4½ in.
,, Ground ,, Sea Level 399 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1								·03	·24	·04	·04	·44	1
2								·54	·04	–	·28	·54	2
3								·19	tr.	·26	·11	·07	3
4								·07	·01	~~·19~~	–	·91	4
5								·60	tr.	·19	tr	·18	5
6								·11	–	·3	–	·36	6
7								–	–	·06	·4	·47	7
8								·06	·02	·1	·68	tr	8
9								·13	tr.	tr.	·28	·01	9
10								·35	tr.	·43	·03	–	10
11								[illegible]	–	tr.	·01	·16	11
12								·07	–	·04	–	·04	12
13								trace	–	·25	–	–	13
14								–	–	·41	–	·15	14
15								·11	·18	tr	~~tr~~	·28	15
16								–	–	·02	tr.	·04	16
17								trace	·31	·06	–	·30	17
18								·07	–	–	–	·24	18
19								trace	·42	·2	·01	tr	19
20								·02	·14	·11	·01	tr.	20
21								·06	·08	·09	–	tr.	21
22								·18	·6	·14	tr	tr.	22
23								·03	tr.	·21	·02	·12	23
24								–	·34	·21	–	tr.	24
25							·11	–	·24	·32	–	·46	25
26							·18	–	·21	·03	·01	·04	26
27							·26	–	tr	·38	·02	·36	27
28							·13	·24	tr	·41	–	·82	28
29							·1	·68	·46	·12	–	·12	29
30		×					·14	·04	·81	·2	–	·02	30
31		×		×		×	·21	·02	×	·12	×	·15	31
TOTAL							~~1·13~~ imp	3·88	3·66	5·66	1·89	6·40	YEAR'S TOTAL imp
*Days with ·01 in. or more.							~~7~~	21	15	26	12	23	–
*Days with ·04 in. or more.							~~6~~	15	13	24	5	21	–

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RICHARD MOORE ESQ

(Signed) [P.T.O.

*See Instruction 2 (*f*) on other side.

383128/35 (2852/5)

Section **A** for the entry of Daily Observations. **COPY FOR OFFICIAL USE.**

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

S. Lancs/3.

Kept at BURY (Greenhill Road)

in the County of LANCASTER

Cing 1934.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 2 ft. 4½ in.

,, Ground ,, Sea Level 399 ft.

Good record.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·68	·44	tr.	tr	-	·02	·06	-	·30	·92	·15	·35	1
2	·01	·16	·02	-	-	·32	tr	tr.	·05	·08	·04	·22	2
3	·04	1·04	·12	·09	-	·08	·46	-	·38	·09	·08	·28	3
4	-	tr.	·01	-	-	·43	·03	-	·31	·14	tr.	-	4
5	-	·48	·15	·35	-	·15	·03	-	·25	tr	·22	·32	5
6	-	tr.	tr.	·08	-	·24	-	-	-	-	-	-	6
7	-	-	-	·14	-	·13	-	-	-	·25	·22	·33	7
8	-	-	-	·11	-	tr	-	-	-	·30	·04	·58	8
9	·02	-	-	·4	-	·05	·01	-	-	1·44	·23	-	9
10	-	·04	-	·18	-	tr.	-	-	-	·66	·19	-	10
11	·49	·06	-	-	-	·14	-	-	tr	·38	·06	-	11
12	·04	·14	-	-	-	·56	-	-	·04	tr	-	-	12
13	·13	·09	-	·09	·18	-	-	-	·18	·13	tr	-	13
14	-	-	-	·02	·01	·16	-	-	·08	-	1·14	·31	14
15	-	1·54	-	·35	·05	tr	tr	-	·70	·09	·08	·24	15
16	-	·3	·1	·40	·02	·24	·12	-	·84	-	·11	-	16
17	-	tr.	-	·40	·62	·18	·13	·03	·32	·05	·40	-	17
18	-	·02	-	·08	·11	·04	·32	-	·43	·28	·13	-	18
19	-	·03	-	·17	·03	·32	·21	-	-	·14	·21	-	19
20	-	·35	-	·60	-	·18	·10	-	-	-	tr.	-	20
21	-	·14	tr.	-	-	tr	-	-	1·16	·22	tr	·26	21
22	tr	·34	·04	·09	-	-	-	-	·04	-	-	-	22
23	tr.	tr.	·94	·12	-	-	-	·36	·03	·44	-	tr	23
24	·64	·38	·05	-	-	-	-	tr	1·05	·10	-	·11	24
25	·16	-	·18	-	-	·31	-	-	-	-	·03	-	25
26	-	-	-	-	-	-	·04	1·00	·49	·46	·12	·28	26
27	-	·06	-	-	·11	·04	·31	-	·20	1·25	·49	·09	27
28	·03	·08	-	-	·04	-	-	tr.	·12	·60	·12	-	28
29	-	×	·02	-	-	tr	-	·03	·22	·52	·10	·15	29
30	·09	×	-	-	-	·22	-	·24	·35	·51	·44	·04	30
31	·05	×	·02	×	-	×	-	-	×	·16	×	·44	31
TOTAL	2·38	5·45	1·65	3·40	1·14	3·84	1·82	1·66	4·54	9·54	4·91	4·03	YEAR'S TOTAL 48·02
*Days with ·01 in. or more.	12	18	11	14	9	19	12	5	21	23	21	15	183
*Days with ·04 in. or more.	9	16	4	16	6	18	9	3	20	23	20	15	162

Good record

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*See Instruction 2 (*f*) on other side.

(Signed) R. Moore

[P.T.O.

R. MOORE ESQ

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. ~~Station~~ File No. 383/128/35

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

Form 1090.

REGISTER OF RAINFALL IN 1936.

Station No. 2852/5

ann. total corr. for arith.

Kept at BURY

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 2 ft 4½ in.

,, Ground ,, Sea Level 399 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following 1936

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	tr.	·12	·04	·21	–	·04	·02	·43	·08	–	·22	·10		1
2	·01	tr	–	·03	–	·22	–	·09	·03	–	·04	·23		2
3	–	–	–	–	–	·12	·05	·19	·81	–	–	·10		3
4	·39	·24	·30	–	–	–	tr	tr	·77	–	·22	·25		4
5	·04	·09	·49	–	–	·01	tr.	·34	·40	–	·14	·34		5
6	·04	tr	·01	–	–	·02	·06	·46	·80	–	·18	–		6
7	–	–	·14	–	–	–	·04	–	·98	–	·16	·40		7
8	·36	–	·26	–	–	–	–	–	–	–	·64	·20		8
9	·25	–	tr	–	–	tr.	·20	–	·09	–	1·48	–		9
10	·16	–	–	–	–	–	·05	–	tr	–	1·00	·01		10
11	–	–	–	–	–	·15	·44	·04	·05	–	·52	tr		11
12	–	–	–	·05	·03	·81	·52	·01	·38	·06	·04	·45		12
13	tr.	–	–	tr	·02	tr	·08	–	–	·30	·01	·65		13
14	–	–	–	tr	–	·31	·06	·10	·21	·15	·36	·04		14
15	·21	–	–	·06	·07	·12	·02	·31	·03	–	·46	tr		15
16	–	·16	tr	–	·01	–	·03	–	–	·03	·80	·14		16
17	·01	·42	–	tr	tr	–	·05	·21	–	·52	·06	–		17
18	–	·03	–	–	–	·05	·20	·18	–	·85	–	–		18
19	·24	·26	·01	·06	–	·06	·18	·48	–	·18	–	tr		19
20	·34	·06	·06	–	–	–	·01	tr	–	·02	–	tr		20
21	·11	–	–	·04	–	·02	–	–	–	·06	–	·04		21
22	·26	·19	·06	–	–	1·05	·25	–	–	–	–	tr		22
23	·16	·01	·19	·34	–	–	·91	tr	–	·04	–	tr		23
24	·11	–	–	·05	·10	–	–	–	·11	·70	–	·03		24
25	·51	–	–	·03	–	–	·04	–	·38	·59	–	·03		25
26	·02	·24	·04	–	–	–	·04	–	·06	·73	–	tr		26
27	·91	·03	·03	tr	–	–	–	–	·06	·45	–	–		27
28	·29	·18	·07	–	–	tr	·11	–	–	–	–	·08	3·10	28
29	·08	·18	1·02	–	·04	·66	tr	–	–	·15	·26	·06		29
30	·30	×	–	–	·65	·18	·50	–	–	·52	·09	·05		30
31	·04	×	tr	×	·02	×	·12	·02	×	–	×	·50		31
TOTAL	4·84	2·21	2·45	·84	·94	3·82	4·04	2·86	5·24	5·35	6·68	3·71	Year's Total 43·37 ~~44·31~~	
*Days with ·01 in. or more.	22	14	14	9	8	15	23	13	16	16	18	19	184	
*Days with .04 in. or more.	19	11	11	4	4	12	19	11	14	14	14	16	155	

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*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*)

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2852/5

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1934

File No 383128/35

Kept at BURY

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 2 ft. 4½ in.

" Ground " Sea Level 399 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following 1934

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·04	·19	·06	—	—	tr	·04	—	·36	·02	—	·24		1
2	·20	·31	·15	·21	—	tr	—	—	·01	—	—	tr		2
3	—	·24	·04	·02	·12	·66	·15	—	—	—	—	tr		3
4	·22	tr	tr	·15	·13	—	·02	—	—	—	—	·75		4
5	1·46	—	·02	·01	·04	tr	tr	—	·04	—	—	tr		5
6	·05	—	·02	tr	·18	—	—	·45	·08	tr	—	tr		6
7	·01	·11	—	·25	·04	·11	·05	—	—	—	—	—		7
8	—	·50	—	·07	tr	·03	—	tr	tr	—	tr	—		8
9	·01	·33	·04	·06	·14	—	·63	·34	—	—	—	—		9
10	tr	·26	—	—	·02	·14	tr	tr	—	—	—	·36		10
11	—	·02	·10	—	·12	—	tr	—	—	—	—	tr		11
12	·04	·48	·15	—	tr	·10	·05	·10	·30	—	—	·22		12
13	—	·21	tr	tr	—	·30	—	·62	·04	~~tr~~ tr	—	·24		13
14	—	·08	·01	—	—	—	—	·44	·09	tr	tr	·21		14
15	·23	·46	—	·42	—	—	·40	—	·48	—	—	·04		15
16	·06	·54	·24	·41	·01	tr	—	·15	·04	—	—	tr		16
17	·05	·05	·33	·11	—	tr	—	tr	·04	—	—	—		17
18	·26	·41	·04	·09	—	—	tr	·33	tr	—	·38	—		18
19	·12	·32	·25	·23	—	·02	·04	·05	—	—	·53	—		19
20	·06	·26	—	·11	·33	—	—	—	—	—	—	·23		20
21	—	·04	—	·13	·02	—	·46	—	—	·09	—	·18		21
22	·05	·04	·05	·08	·03	—	·11	—	—	·41	·29	·18		22
23	·13	—	—	—	·48	—	·31	—	—	·34	·15	—		23
24	·09	·23	·16	—	tr	—	·06	—	·18	·28	—	·11		24
25	·02	·50	—	—	—	—	tr	·15	tr	·02	—	·06		25
26	—	·31	·05	—	·44	—	—	·03	·09	tr	—	·03		26
27	—	·42	—	·14	—	—	—	—	—	·38	—	tr		27
28	—	·20	—	—	—	·02	—	—	—	·15	—	—		28
29	—	—	—	—	—	·03	—	—	—	·03	·11	tr.		29
30	·05	✕	—	—	—	·33	—	tr	tr	·09	·64	tr		30
31	·31	✕	—	✕	—	✕	—	·06	✕	·22	✕	—		31
TOTAL	3·46	6·54	1·44	2·49	2·13	1·44	2·32	2·45	1·78	2·03	2·10	2·88	Year's Total 31·96	
* Days with .01 in. or more.	20	24	16	16	14	10	12	11	12	11	6	13	165	
* Days with .04 in. or more.	14	23	13	14	10	6	11	10	11	8	6	12	144	

† Spare column, no entries required.

(*Signed*) ....

[P.T.O.

* See Instruction 3 (f) on other side.

52

2852/5

Section A **for the entry of Daily Observations.** COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1938.

Kept at BURY

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 2 ft. 4½ in.

,, Ground ,, Sea Level 399 ft.

Station No. 2852/5.

File No. 383128/35.

Totals

VR

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following
1938

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	—	·02	—	tr	—	·85	·03	·14	—	tr	·21	·32	1
2	tr	·03	—	·43	—	·38	·01	—	—	1·32	·02	·33	2
3	tr	—	—	tr	—	·03	·02	—	·22	1·44	·20	—	3
4	tr	—	—	·15	—	·04	·11	·09	—	·35	·16	1·40	4
5	·03	·02	—	·05	—	·04	·13	tr.	·08	·69	—	·05	5
6	·16	—	—	—	—	·02	·26	—	·41	·30	—	·02	6
7	·24.	—	tr	—	—	—	·58	02	·10	·35	—	—	7
8	·42	tr	—	—	—	—	·34	tr	—	·84	—	·32	8
9	·18	·42	·20	—	—	·34	·16	—	—	·10	—	·24	9
10	tr	·05	·03	—	—	·16	·42	—	tr	·12	—	·04	10
11	·18	·11	tr.	—	·06	·04	·11	·42	·07	·18	·11	·09	11
12	·24	—	—	—	·18	tr	tr	·02	—	1·32	·31	tr	12
13	·01	tr	—	—	·03	—	·06	—	·06	·24	·14	·32	13
14	·21	·01	tr	—	·16	—	·10	—	·04	tr	—	tr	14
15	·35	—	tr	—	·01	—	·24	·30	—	·03	—	·24	15
16	·44	—	·05	—	·06	—	·15	·15	—	·06	·20	·06	16
17	—	—	—	—	1·00	—	·15	·16	·04	·54	·03	—	17
18	·08	—	—	—	·10	·19	—	·44	·12	·46	·35	—	18
19	—	—	—	—	—	—	—	·28	·03	tr	—	—	19
20	·33	—	—	—	—	—	—	·04	·19	—	·38	tr	20
21	·01	—	·01	—	—	~~tr~~ tr	—	·10	·01	—	·06	tr	21
22	—	—	—	·01	—	·24	—	—	—	—	·44	·05	22
23	—	—	—	tr	·20.	·45	—	·01	·04	—	·44	—	23
24	·25	·04	·21	—	·04	·04	·02	·61	·04	tr	·24	—	24
25	·14	·49	·04	—	·01	·08	·14	·01	—	·62	·64	—	25
26	·25	·31	·30	—	·13	·14	—	—	·03	·31	·38	·16	26
27	·66	·16	tr	—	·50	·42	·12	·15	·02	tr	·46	—	27
28	·28	·05	·18	—	·09	·48	·12	·20	·04	·05	·01	·15	28
29	·20	×	·14	—	1·03	·1·1	·24	—	—	·15	·05	·56	29
30	·45	×	—	—	·05	·04	·04	—	·54	—	·20	·02	30
31	·22	×	tr	×	·41	×	—	—	×	·48	×	1·11	31
TOTAL	5·39	1·44	1·19	·64	4·06	4·45	3·91	3·44	2·11	10·01	5·12	5·48	YEAR'S TOTAL 47·87 ✓
*Days with ·01 in. or more.	22	12	9	4	14	19	21	17	18	21	21	18	199 ✓
*Days with ·04 in. or more.	19	8	4	3	14	14	18	13	13	20	18	16	166 ✓

40-9999

(Signed) [P.T.O.

*See Instruction 2 (*f*) on other side.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2852/5

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939

File No. 383.128/35

Kept at BURY

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 2 ft. 7½ in.

,, Ground ,, Sea Level 399 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following 1939

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·31	—	·03	·29	—	—	tr.	·02	—	tr	—	·45		1
2	·04	—	—	·15	—	—	·43	·93	·53	—	·03	·14		2
3	·02	—	·31	·04	—	—	—	·06	·03	—	·08	·85		3
4	tr	—	—	·28	tr	—	·37	—	—	—	·01	·44		4
5	—	—	—	tr	·42	—	·21	·10	—	·25	·24	·04		5
6	·93	·31	tr	—	—	—	·62	tr	—	—	·22	—		6
7	·31	·36	·04	—	·21	—	·07	tr	—	—	·06	·40		7
8	·21	·10	·34	·03	—	—	·48	·08	—	·06	·25	·50		8
9	·05	·49	—	—	—	—	tr.	·60	—	·25	·05	·54		9
10	·06	·03	·02	—	—	·19	—	·05	·49	·62	·02	11		10
11	·26	·05	·25	—	—	·25	—	—	—	tr	tr	—		11
12	·45	·09	—	—	—	·03	—	—	tr	—	—	—		12
13	·06	—	—	·27	·14	·18	·09	—	—	·06	—	—		13
14	·71	—	—	tr	·61	·49	·37	—	tr	—	·30	—		14
15	·05	·05	tr	·83	·08	1·15	·12	—	—	—	·13	—		15
16	·04	—	·04	—	·25	—	·08	—	—	·04	·13	—		16
17	·82	·35	·01	·04	·06	tr	·48	—	—	·40	·10	—		17
18	·09	·26	·01	—	—	·19	·18	—	—	—	·80	—		18
19	·25	—	—	—	tr	tr	·20	—	—	—	tr	—		19
20	·03	—	·03	—	·02	·06	tr	·11	—	—	—	—		20
21	·14	·09	·54	·12	·02	—	·11	·23	tr	—	—	—		21
22	·11	·24	·21	tr	tr	—	·13	—	—	tr	·44	—		22
23	tr	·45	—	·29	—	·04	·08	—	—	·43	·19	·04		23
24	tr	·11	—	·05	—	—	·13	—	—	·02	·02	—		24
25	·10	·16	tr	·01	—	—	—	—	—	~~2~~	1·44	—		25
26	tr	·03	—	—	—	—	—	·04	—	·06	·44	tr		26
27	tr	1·82	·02	—	—	·48	·10	·06	—	tr	·30	·06		27
28	tr	·14	·05	—	—	·24	·73	—	—	—	·95	—		28
29	—	—	tr	—	—	—	1·42	—	—	·10	·18	—		29
30	—	✕	—	—	—	·04	·10	—	—	—	·23	—		30
31	—	✕	—	✕	—	✕	·24	—	✕	—	✕	—		31
TOTAL	5·04	5·16	1·96	2·40	1·81	3·41	6·44	2·31	1·05	2·29	6·94	3·90	Year's Total 43·07	
* Days with .01 in. or more.	21	18	14	12	9	12	22	11	3	11	23	11	167	
* Days with .04 in. or more.	19	16	8	10	4	11	22	10	2	10	18	11	~~155~~	~~145~~ 145

† Spare column, no entries required.

(Signed)

* See Instruction 3 (f) on other side.

P.T.O.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations

Station No. 2852/5

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19340

File N° 383. 128/35

Kept at BURY

in the County of LANCASHIRE

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 2 ft. 4½ in.

,, Ground ,, Sea Level 399 ft.

Ays

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following 1940

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	–	·04	–	·28	–	–	tr	–	–	–	·42	·28		1
2	–	–	–	·25	–	–	·04	–	–	–	·45	·26		2
3	tr	·09	tr	·21	–	–	·31	–	–	·03	·06	·20		3
4	–	·06	tr	·08	–	–	·04	–	–	·14	·23	·35		4
5	–	·02	–	–	·19	–	·04	–	–	·56	·02	·48		5
6	·12	·15	–	–	–	–	·01	–	–	·45	·03	·10		6
7	·06	·24	–	·22	·04	–	·06	·15	·04	·02	–	tr		7
8	–	–	·02	tr	–	–	–	·01	–	·36	·04	·34		8
9	–	–	·23	–	–	–	·68	·14	·40	·61	1.28	·40		9
10	–	–	–	–	–	–	·48	·32	·03	·19	·68	·52		10
11	–	–	·14	·05	–	·03	·08	–	–	–	1·49	·01		11
12	–	tr	·36	–	–	tr	·11	·06	·56	–	·44	–		12
13	–	tr	·08	tr	–	–	–	·10	·55	–	·06	–		13
14	–	·05	tr	·31	·04	–	·01	·10		–	·10	·55		14
15	tr	–	·05	·12	·10	·04	–	–		–	·09	·04		15
16	tr	–	·08	·11	–	–	·24	–		·45	·01	·11		16
17	–	–	·62	·03	·25	–	·90	–		–	·41	·01		17
18	tr	·23	·13	·26	–	–	·04	–	2·31	tr	tr	·25		18
19	–	·19	·23	·08	–	–	·11	·30		–	·24	·03		19
20	–	–	·03	·24	–	–	·34	·32		·20	·13	–		20
21	–	–	·24	·01	·24	·36	·10	·01	–	·02	·53	–		21
22	–	–	·06	–	·01	·10	–	·04	·35	–	–	–		22
23	–	·16	tr	·21	tr	–	·15	–	·06	–	·16	–		23
24	·54	tr	·04	–	–	–	tr	–	·01	–	–	tr		24
25	–	–	–	–	tr	·01	–	–	–	–	–	–		25
26	·51	·14	tr	–	·03	·06	·06	tr	1.55 tr	–	·03	–		26
27	·46	·54	–	tr	·01	–	·91	–	–	–	·11	–		27
28	·13	·24	–	–	·21	–	–	·18	–	–	–	·06		28
29	–	–	·34	tr	–	·36	·01	–	–	tr	–	·44		29
30	–		–	tr	–	–	–	–	–	·38	·01	·30		30
31	tr		·14		·02		–	·03		·49		–		31
TOTAL	2·15	2·21	2·49	2·46	1·14	·99	4·48	1·46	4·34	4·23	4.08	5·06	Year's Total 39·02 ✓	
* Days with .01 in. or more.	6	13	16	15	11	4	21	13	~~9~~ 15	13	23	19	~~166~~ 172 ✓	
* Days with .04 in. or more.	6	12	14	13	4	5	18	10	~~7~~ 12	10	18	16	~~136~~ 141 ✓	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) ....

[P.T.O.

2853

Section **A** for the entry of … PY FOR OFFICIAL USE.
AIR MINISTRY … ORGANIZATION.

FORM 1090. **REGIST**

2853

Bury Parsons Lane

1931 —— 40

780502

Kept at Parsons Lane,
in the County of Lancas
Diameter of Funnel of Gauge
Height of top of Gauge above Ground
,, Ground ,, Sea Le

THE MORNING MEASU

An observer who does not conform to t … owing
year in the space on the right of this

Jan. 1, following

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.								in.	in.	
1	·15	·	·	·01	·	·	-	·	·06	·10	-	·	1
2	·03	·08	·	·70	·03	1·04	·	-	·86	·02	·08	·10	2
3	·	-	·	·05	·	·03	·35	·	·29	·01	1·85	·41	3
4	·	·02	·	·39	·01	·	·10	·01	·70	·02	·03	·43	4
5	·	·17	-	·	·18	1·07	·31	1·20	·10	·	·	·41	5
6	·	·30	·	·	·08	·20	·35	·	·40	·59	·32	·05	6
7	·	·05	·01	·	·	·44	·	·30	·	·39	·12	·18	7
8	·11	·23	·01	·12	·01	·	·21	·30	·16	·03	·22	·01	8
9	·02	·76	·	·23	·	·11	·	·35	·05	·04	·28	·10	9
10	·13	·27	·	·	·19	·32	·	·09	·22	·	·36	·01	10
11	·62	·83	·	·06	·	·	·17	·	·48	·	·64	·	11
12	·03	·42	-	·01	·	·	·40	·	·08	·20	·13	·	12
13	·	·	·18	·	·06	·01	·30	·05	·	·	·	·	13
14	·27	·16	·	·	·02	1·06	·19	·87	·01	·	·55	·	14
15	·38	·33	·	·18	·18	·	·12	·29	-	·	·04	·02	15
16	·57	·07	·	·50	·40	·22	·06	·92	·28	-	·	·	16
17	·05	·05	·	·	·07	·06	·53	·44	·04	·	·15	·	17
18	·46	·	·	·05	·	·48	·50	·13	·	·	·86	·	18
19	·23	·29	·16	·	·	·	·17	1·24	-	·	·	·	19
20	·01	·16	·08	·	·	·01	·	·14	·	·	·09	·	20
21	·48	·06	·	·	·18	·15	·02	·24	·	·	·03	·	21
22	·31	·06	·	·08	·21	·04	·02	·	·	·	·06	·	22
23	·36	·	·	·24	·37	·18	·36	-	·	·	·84	·34	23
24	·04	·24	·	·11	·44	·	·03	·	·	·	·06	·07	24
25	·20	1·02	·	·25	·10	·	·01	-	·	·	·06	·19	25
26	·03	·08	·	·39	-	·	·	·	·	·	·52	·03	26
27	·72	·12	·	·04	·16	·	·33	·	·	·36	1·30	·03	27
28	·56	·46	·	·04	·12	·	·17	·	·08	·	·	·12	28
29	·21	×	·	·01	·08	·	·13	·	·	·81	·01	·	29
30	·	×	·	·02	·	·	·	·	·11	·	·01	·	30
31	·53	×	·	×	·	×	·24	·	×	·02	×	·11	31
TOTAL	6·50	6·23	·44	3·48	2·89	5·51	5·07	6·57	3·92	2·59	8·61	2·61	YEAR'S TOTAL 54·42
*Days with ·01 in. or more.	24	23	5	20	19	16	23	15	16	12	24	17	214
*Days with ·04 in. or more.	19	22	3	16	15	14	19	14	15	7	20	12	176

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) J. C. Codwill

P.T.O.

2853

Section **A** for the entry of … PY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Parsons Lane, Bury

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 9 ft. 6 in.

,, Ground ,, Sea Level 316 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·15	·	·	·01	·	·	·	·	·06	·10	-	·	1
2	·03	·08	·	·70	·03	1·04	·	·	·86	·02	·08	·10	2
3	·	-	·	·05	·	·03	·35	·	·29	·01	1·85	·41	3
4	·	·02	·	·39	·01	·	·10	·01	·70	·02	·03	·43	4
5	·	·17	·	·	·18	1·07	·31	1·20	·10	·	·	·41	5
6	·	·30	·	·	·08	·20	·35	·	·40	·59	·32	·05	6
7	·	·05	·01	·	·	·44	·	·30	·	·39	·12	·18	7
8	·11	·23	·01	·12	·01	·	·21	·30	·16	·03	·22	·01	8
9	·02	·76	·	·23	·	·11	·	·35	·05	·04	·28	·10	9
10	·13	·27	·	·	·19	·32	·	·09	·22	·	·36	·01	10
11	·62	·83	·	·06	·	·	·17	·	·48	·	·64	·	11
12	·03	·42	·	·01	·	·	·40	·	·08	·20	·13	·	12
13	·	·	·18	·	·06	·01	·30	·05	·	·	·	·	13
14	·27	·16	·	·	·02	1·06	·19	·87	·01	·	·55	·	14
15	·38	·33	·	·18	·18	·	·12	·29	·	·	·04	·02	15
16	·57	·07	·	·50	·40	·22	·06	·92	·28	-	·	·	16
17	·05	·05	·	·	·07	·06	·53	·44	·04	·	·15	·	17
18	·46	·	·	·05	·	·48	·50	·13	·	·	·86	·	18
19	·23	·29	·16	·	·	·	·17	1·24	-	·	·	·	19
20	·01	·16	·08	·	·	·01	·	·14	·	·	·09	·	20
21	·48	·06	·	·	·18	·15	·02	·24	·	·	·03	·	21
22	·31	·06	·	·08	·21	·04	·02	·	·	·	·06	·	22
23	·36	·	·	·24	·37	·18	·36	-	·	·	·84	·34	23
24	·04	·24	·	·11	·44	·	·03	·	·	·	·06	·07	24
25	·20	1·02	·	·25	·10	·	·01	·	·	·	·06	·19	25
26	·03	·08	·	·39	· -	·	·	·	·	·	·52	·03	26
27	·72	·12	·	·04	·16	·	·33	·	·	·36	1·30	·03	27
28	·66	·46	·	·04	·12	·	·17	·	·08	·	·	·12	28
29	·21	×	·	·01	·08	·	·13	·	·	·81	·01	·	29
30	·	×	·	·02	·	·	·	·	·11	·	·01	·	30
31	·53	×	·	×	·	×	·24	·	×	·02	×	·11	31
TOTAL	6·50	6·23	·44	3·48	2·89	5·51	5·07	6·57	3·92	2·59	8·61	2·61	YEAR'S TOTAL 54·42
*Days with ·01 in. or more.	24	23	5	20	19	16	23	15	16	12	24	17	214
*Days with ·04 in. or more.	19	22	3	16	15	14	19	14	15	7	20	12	176

40-9999

(Signed) J. C. Hodwill [P.T.O.

*See Instruction 2 (*f*) on other side.

~~COPY FOR OFFICIAL USE~~

Section | **A** | **for the entry of Daily Observations.** Station No. 2853

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Parsons Lane, Bury
in the County of Lancaster
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 9 ft 6 in.
,, Ground ,, Sea Level 316 ft.

The Bury & District
Joint Water Board.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·41			·45	·07		·19	·01	·78	·34	·12	·14	1
2	1·03				·08		·02	·03	1·20	·16	·13	·44	2
3	·03						·24	·01	·11	·01	·02	·13	3
4	·10						·38		·03	·04	·12	·04	4
5	·95		·12	·29	·01		·01		·14				5
6	1·30		·14	·52	·02				·23				6
7	·09		·71	·15					·60	·65			7
8				·16					·07	·68			8
9	·03	·06		·42	·05				·04			·04	9
10	·60	·02		·02					·75	·38	·01		10
11	·04				·72	·03	·20		·07				11
12	·45				·51	·01	·04	·02	·02	·50			12
13		·03		·10	·20		·35	·05	·32	·61		·38	13
14	·14			·08			·32	·07		·25	·04	·07	14
15					·62					·19	·08	·07	15
16	·26			·02			·05	·01		·23		·15	16
17				·01			·11	·06	·04	·39			17
18					·07					·05	·01		18
19				·18	·06		·02			·42			19
20				·20	·24		·07	·26		·20	·08	·02	20
21	·08		·34	·18	·46		·03	·28		·53	·14	·01	21
22	·01		·21	·22	·22		·12			·04	1·14	·08	22
23				·06	·76		·13			·10	·12	·08	23
24	·05	·02			·01	·04	·47		·19	·03	·20	·02	24
25				·13	·05		·56		·06	1·08	·26		25
26				·12	·22		·03		·12	·46	·18		26
27			·36	·34	·39	·17	·16			·04	·17	·11	27
28			·06	·17	·21		·35					·02	28
29	·05		·63	·39	·02	·12	·22	·37	·12	1·00	·25	·38	29
30		×	·17	·02	·05	·42	·08	·01		·20	·39	·12	30
31		×	·08	×	·01	×	32		×	·02	×	·06	31
TOTAL	5·62	0·13	2·82	4·23	5·05	0·79	4·47	1·18	4·89	8·60	3·46	2·36	YEAR'S TOTAL 43·60
*Days with ·01 in. or more.	17	4	10	22	23	6	24	12	18	26	18	19	199
*Days with .04 in. or more.	14	1	10	18	18	4	19	6	16	23	15	15	159

40-9999

*See Instruction 2 (*f*) on other side,

(Signed) J. C. Rodwell

P.T.O.

~~COPY FOR OFFICIAL USE.~~

Section **A** for the entry of Daily Observations. Station No. 2853

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Parsons Lane, Bury

in the County of Lancaster

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 9 ft 6 in.

,, Ground ,, Sea Level 316 ft.

The Bury & District Joint Water Board.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·03	·53			·02			·03	·05		·44		1
2	·45		·19	·31		·13		·08					2
3	·01	·65	·36		·47						·02		3
4	·31	·12	·22		·16								4
5	·22	·23	·07		·06						·05		5
6	·03	·15	·11		·28							·03	6
7	·05	·40	·05		·03		·32	·05		·68			7
8	·38	·11	·18	·07	·03		·22	·01				·06	8
9		·27		·22	·11		·87	·03		·53	·18		9
10	·16	·01				·02	·02			1·26	·19		10
11				·01			·52			·35		·10	11
12	·02					·15	·26			·18		·05	12
13			·01		·19		·23	·05		·14	·32		13
14	·25		·02		·01		·11	·14		·01	·51		14
15	·23		·05			·03	·02	·09		·27	·25		15
16	·09	·03	·21	·07	·02	·28	·08	·34		·23	·04		16
17	·04		·83	·04		·84	·01	·01	·04		·02		17
18	·05	·02	·28		·11	·25					·01		18
19			·28			·01	·03	·02	·46		·14	·02	19
20		·11		·02	·04	·22		·34					20
21								·46	·12				21
22								·08		·12			22
23				·32		·03		·01	·01	·01			23
24		·13		·19	·17	·19			·62				24
25		·50		10					·08			·10	25
26		·55		·41						·36		·01	26
27					·44					·02			27
28				·08				·01		·11			28
29		×					·11					·09	29
30	·04	×		·26	·06	·01	·12			·30		·29	30
31	·43	×	·11	×		×	·20	·15	×	·28	×		31
TOTAL	2·79	3·81	2·97	2·10	2·20	2·16	3·12	1·90	1·38	4·85	2·17	·75	YEAR'S TOTAL 30·20
*Days with ·01 in. or more.	17	15	15	13	16	12	15	17	7	16	12	9	164
*Days with .04 in. or more.	13	12	13	11	11	7	11	10	6	13	9	6	122

40-9999

*See Instruction 2 (*f*) on other side,

D

(*Signed*) J. A. Rodwell

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2853

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Parsons Lane, Bury
in the County of Lancashire
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 9 ft. 6 in.
,, Ground ,, Sea Level 316 ft.

Totals
Bury and District Joint Water Board

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	·18	·	·	·	·	·	·	·06	·16	·04	·05	·47		1
2	·	·03	·16	·	·01	·		·61	·05	·	·29	·51		2
3	·13	·	·	·	·	·	·	·07	·01	·29	·10	·09		3
4	·19	·	·14	·06	·07	·	·	·	·02	·90	·	1·03		4
5	·	·	·09	·	·09	·	·	·60	·01	·30	·02	·14		5
6	·	·	·11	·15	·57	·04	·	·07	·	·27	·	·32		6
7	·41	·05	·09	·05	·	·06	·		·	·05	·46	·43		7
8	·	·	·	·	·13	·42	·	·06	·04	·12	·61	·01		8
9	·	·07	·23	·	·	·	·	·15	·	·02	·23	·03		9
10	·	·	·32	·05	·	·	·	·33	·	·44	·02	·		10
11	·09	·	·02	·58	·	·	·09	·34	·	·	·02	·20		11
12	·	·	·	·18	·	·	·13	·05	·	·08	·02	·07		12
13	·43	·	·	·04	·06	·	·	·01		·28	·	·		13
14	·34	·	·15		·06	·	·	·	·	·41	·01	·14		14
15	·54	·	·30	·	·78	·03	·01	·10	·14	·01	·01	·31		15
16	·70	·	·17	·	·12	·	·	·	·	·05	·01	·05		16
17	·33	·	·38	·02	·18	·	·24		·29	·03	·	·25		17
18	·28	·	·15	·22	·64	·21	·	·04	·	·	·	·27		18
19	·	·	·24	·	·07	·27	·	·	·43	·22	·	·		19
20	·	·	·02	·16	·36	·04	·	·05	·12	·11	·01	·01		20
21	·10	·	·04	·	·	·40	·	·06	·10	·12	·	·		21
22	·08	·	·01	·		·	·	·21	·55	·15	·01	·		22
23	·	·	·14	·48	·	·	·60	·02	·	·23	·02	·11		23
24	·	·28	·03	·34	·02	·04	·01	·	·40	·20	·	·		24
25	·12	·13	·	·12	·03	·	·15	·	·25	·33	·	·47		25
26	·11	·	·04	·13	·	·09	·25	·	·19	·05	·03	·08		26
27	·	·	·	·03	·	·24	·31	·	·01	·51	·03	·38		27
28	·	·	·	·03	·	·13	·25	·37	·02	·45	·	·43		28
29	·	×	·	·	·	·	·11	·63	·43	·20	·	·14		29
30	·06	×	·	·	·	·	·08	·23	·34	·20	·	·04		30
31	·02	×	·	×	·	×	·36	·	×	·12	×	·18		31
TOTAL	4·11	·56	2·83	2·64	3·19	1·97	2·59	4·06	3·59	6·18	1·95	6·46	Year's Total 40·13	
*Days with ·01 in. or more.	17	5	20	16	15	12	13	20	19	28	18	25	208	
*Days with .04 in. or more.	16	4	16	13	12	11	11	18	14	25	6	22	168	

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*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) J. A. Rodwell

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2853

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Parson's Lane Bury

in the County of Lancaster

Diameter of Funnel of Gauge 5 in

Height of top of Gauge above Ground 9 ft. 6 in.

,, Ground ,, Sea Level 316 ft.

P. 8

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·54	·32				·03	·07		·16	1·17	·15	·36		1
2		·15	·02			·31			·06	·10	·07	·12		2
3	·07	·84	·13	·11		·11	·43		·56	·05	·09	·22		3
4			·07	·02		·34	·03		·34	·20		·02		4
5		·45	·11	·21		·12	·02		·16	·01	·17	·24		5
6				·07		·28								6
7				·16		·11				·30	·22	·34		7
8				·12						·27	·13	·44		8
9	·01			·41		·07				1·58	·12			9
10		·03		·19		·21	·01			·52	·17			10
11	·51	·07				·56				·34	·07			11
12		·16							·06					12
13	·15	·08		·07	·23				·20	·11	·01			13
14				·07	·03	·23			·09		1·14	·33		14
15		1·26		·37	·05				·62	·10	·06	·22		15
16		·24	·11	·40	·04	·25	·15		·80		·15			16
17		·01		·37	·60	·19	·32		·24	·05	·31			17
18		·03		·08	·10	·06	·26		·43	·26	·14			18
19		·03		·15	·02	·30	·20			·14	·25			19
20		·32		·48		·17	·10							20
21		·13	·04						·96	·21	·02	·12		21
22		·17	·05	·13					·01					22
23	·04		·85	·16				·33	·04	·40				23
24	·45	·46	·06						1·11	·08	·01	·14		24
25	·16		·17			·17					·07	·01		25
26							·03	1·01	·47	·38	·10	·29		26
27		·06			·06	·03	·29		·24	1·22	·47	·04		27
28	·04	·08			·03				·09	·39	·07			28
29			·04					·08	·30	·50	·15	·17		29
30	·08	×				·20		·21	·26	·49	·72	·09		30
31	·05	×		×		×			×	·21	×	·45		31
TOTAL	2·10	4·89	1·65	3·57	1·16	3·74	1·91	1·63	7·20	9·08	4·86	3·60	Year's Total 45·39	
* Days with .01 in. or more.	11	19	11	18	9	19	12	4	21	24	24	17	189	
* Days with .04 in. or more.	10	15	10	17	6	17	8	4	20	23	21	15	166	

40-9999.

* See Instruction 2 (f) on other side.

† Spare column; no entries required.

(*Signed*) J. A. Rodwell

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2853

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Parsons Lane, Bury
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 9 ft. 6 in.
,, Ground ,, Sea Level 316 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1		·07	·03	·18		·09		·41	·09		·23	·21		1
2	·02	·11		·03		·23		·08	·01		·05	·14		2
3						·15	·05	·14	1·20			·08		3
4	·38	·22	·25			·01		·05	·65		·25	·24		4
5	·09	·08	·41					·36	·40		·12	·41		5
6	·04		·01			·01	·05	·36	·83		·18			6
7			·15				·11		·74		·15	·41		7
8	·40		·24								·61	·09		8
9	·23		·01				·35		·06		1·28			9
10	·10						·25				·86			10
11						·19	·63	·05	·08		·54	·03		11
12				·09	·04	·74	·42		·38	·04	·08			12
13				·03	·01		·07			·35	·01	·40		13
14				·04		·33	·07	·10	·32	·16	·33	·52		14
15	·23			·06	·07	·13	·04	·35	·04		·45	·06		15
16		·18	·02				·04			·03	·74	·01		16
17	·13	·40	·01	·01	·01		·07	·16		·49	·05	·19		17
18				·03		·10	·21	·15		·82				18
19	·22	·25	·03	·05		·08	·15	·35		·14				19
20	·24	·10	·05				·02			·02		·01		20
21	·14			·04		·07				·06				21
22	·21	·20	·07			1·08	·30							22
23		·01	·19	·29			·43			·04		·03		23
24	·14			·06	·16				·12	·70		·03		24
25	·48			·04			·08		·36	·51		·03		25
26	·04	·21	·11				·03		·10	·46				26
27	1·00	·06							·05	·42				27
28	·12	·21	·14				·10					·10		28
29	·08	·19	·86		·08	·61				·14	·19			29
30	·30	✕			·36	·02	·45			·45	·14	·15		30
31	·06	✕	·03	✕	·02	✕	·06		✕		✕	·48		31
TOTAL	4·65	2·29	2·61	·95	·75	3·84	4·28	2·56	5·43	5·13	6·26	3·62	Year's Total 42·37	✓
* Days with .01 in. or more.	21	14	17	13	8	15	22	12	16	16	18	20	192	✓
* Days with .04 in. or more.	20	13	10	9	5	12	20	12	15	14	17	14	161	✓

40-9999.

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) J A Rodwell [P.T.O.

~~COPY FOR OFFICIAL USE.~~

Section A for the entry of Daily Observations.

Station No. 2853

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

Kept at Parsons Lane, Bury

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 9 ft. 6 in.

,, Ground ,, Sea Level 316 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	.04	.18	.07						.32			.28	1
2	.19	.30	.12	.19			.03		.02				2
3	.0	.30	.06	.06	.12	.66	.11						3
4	.23		.03	.10	.15							.80	4
5	1.34			.01	.01							.04	5
6	.03			.11	.13			.37	.04			.03	6
7	.02	.14	.02	.34	.04	.09			.06				7
8		.55		.02		.05	.20						8
9		.26		.06	.22		.44	.38					9
10	.02	.12				.14						.28	10
11		.02	.22		.09								11
12	.06	.50	.07			.08	.05	.06	.26			.23	12
13		.21				.36		.54	.04			.21	13
14		.09	.09					.42	.06	.01	.03	.16	14
15	.23	.45		.40			.39		.39			.03	15
16	.03	.52	.14	.32	.07			.14	.09				16
17	.05	.07	.33	.09		.01		.02	.07				17
18	.24	.36	.09	.06				.32			.43		18
19	.09	.32	.10	.20		.02	.03	.03			.36		19
20	.11	.20		.09	.34	.03	.08					.26	20
21		.06		.16	.03		.38			.11		.15	21
22	.11	.01	.07	.01	.02		.09			.42	.40	.15	22
23	.16		.01		.43		.31			.34	.16		23
24	.10	.28			.04		.04		.15	.31		.09	24
25	.01	.46						.11	.04	.04		.05	25
26		.27	.10		.45				.07			.08	26
27		.22	.04	.14						.32			27
28		.14				.04				.18			28
29						.03				.03	.19		29
30	.08	×				.31		.02		.09	.58		30
31	.34	×		×		×		.09	×	.23	×		31
													YEAR'S TOTAL
TOTAL	3.48	6.03	1.56	2.36	2.14	1.82	2.15	2.50	1.61	2.08	2.15	2.84	30.72 ✓
*Days with ·01 in. or more.	20	24	16	17	14	12	12	12	13	11	7	15	173 ✓
*Days with .04 in. or more.	15	22	13	14	11	8	10	9	12	9	6	13	142 ✓

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) J. A. Rodwell

[P.T.O.

Section **A** for the entry of Daily Observations

Station No. 2853

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

Kept at Parsons Lane, Bury

in the County of Lancaster

58782/30

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 9 ft. 6 in.

,, Ground ,, Sea Level 316 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	.	.01	.	.	.	.40	.	.14	.	.13	.21	.32		1
2	.	.03	.	.40	.	.27	.	.	.	1.22	.07	.34		2
3	.	.	.	.01	.	.04	.03	.	.15	1.28	.05	.02		3
4	.02	.	.	.07	.	.03	.18	.22	.	.26	.28	1.00		4
5	.03	.	.	.05	.	.09	.15	.	.09	.64	.	.08		5
6	.18	.02	.	.	.	.02	.32	.	.44	.33	.	.03		6
7	.28	.	.	.	.	.	.63	.05	.11	.38	.	.		7
8	.47	.02	.	.	.	.	.21	.	.	.90	.	.33		8
9	.10	.50	.13	.	.	.35	.11	.	.	.09	.	.29		9
10	.	.01	.03	.	.	.18	.58	.	.	.13	.	.06		10
11	.18	.07	.	.	.06	.04	.12	.20	.	.16	.10	.05		11
12	.26	.	.	.	.21	.	.	.	.01	1.38	.31	.01		12
13	.01	.05	.	.	.03	.	.08	.	.06	.20	.21	.31		13
14	.30	.	.	.	.15	.	.10	.	.05	.	.03	.		14
15	.35	.	.	.	.02	.	.28	.34	.	.08	.	.28		15
16	.44	.	.04	.	.13	.	.16	.13	.	.05	.15	.10		16
17	.	.	.	.	.95	.	.16	.18	.06	.49	.	.03		17
18	.12	.02	.	.	.09	.15	.	.38	.01	.39	.39	.		18
19	.	.	.	.	.	.	.	.29	.10	.	.	.04		19
20	.29	.	.03	.	.	.	.	.04	.18	.	.40	.		20
21	.	.	.01	.	.	.	.	.10	.02	.	.08	.01		21
22	.	.	.	.	.	.23	.	.	.	.	.41	.04		22
23	.	.	.	.	.17	.48	.	.	.08	.	.43	.		23
24	.30	.15	.20	.	.06	.10	.	.60	.	.04	.24	.		24
25	.11	.40	.07	.	.01	.07	.20	.04	.	.51	.54	.02		25
26	.23	.33	.25	.	.13	.13	.	.	.04	.26	.27	.		26
27	.57	.15	.	.	.43	.82	.10	.18	.03	.	.46	.		27
28	.28	.06	.14	.	.10	.77	.13	.19	.06	.	.04	.30		28
29	.15	X	.11	.	1.05	.12	.26	.	.	.19	.06	.40		29
30	.35	X	.	.	.08	.20	.01	.	.47	.	.21	.10		30
31	.22	X	.	X	.40	X	.	.	X	.50	X	1.02		31
													Year's Total	
TOTAL	5.24	1.82	1.01	0.53	4.07	4.19	3.81	3.08	1.96	9.61	4.94	5.18	46.04	✓
* Days with .01 in. or more.	22	14	10	4	17	19	19	15	17	22	21	23	203	✓
* Days with .04 in. or more.	19	8	7	3	14	17	17	15	13	22	20	17	172	✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) R. Wyllie

[P.T.O.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations

Station No. 2853

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939

Kept at Parsons Lane, Bury

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 9 ft. 6 in.

" Ground " Sea Level 316 ft.

Irwell Valley Water Board.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·32		·15	·18			·01	·05	·01			·33		1
2	·05			·12			·37	·87	·67		·09	·10		2
3	·03			·08				·04	·07		·10	·78		3
4	·05		·35	·42	·02		·39			·03	·04	·67		4
5					·35		·22	·05		·21	·32	·02		5
6	·77	·38	·01				·50	·02			·14			6
7	·20	·29	·09		·10		·11	·01			·08	·50		7
8	·28	·10	·19				·05	·05		·12	·19	·37		8
9	·09	·47		·09				·67		·41	·08	·52		9
10	·11		·05			·13		·05	·38	·20	·04	·08		10
11	·24	·03	·20			·17				·01				11
12	·41	·09				·07			·02					12
13	·10			·26	·10	·21	·06			·07				13
14	·60				·45	·43	·74				·21			14
15	·08	·06		·71	·05	1·20	·15				·13			15
16	·08			·05	·23		·14			·03	·10			16
17	·73	·31	·05	·01	·09	·05				·35	·09			17
18	·10	·18				·18					·71			18
19	·24				·02	·02	·14							19
20	·06					·08	·15	·24						20
21	·10	·13	·58	·12	·06		·06	·20						21
22	·09	·24	·15	·02			·18			·01	·71			22
23		·37		·24		·03	·10			·42	·15			23
24	·01	·17		·04			·13			·01	·02			24
25	·15	·12									1·32			25
26	·01	·05						·35		·09	·41			26
27		1·55	·06			·64	·11	·06		·02	·28	·10		27
28	·02	·10	·07	·02		·16	·69				·85			28
29			·02				1·34			·13	·19			29
30		×				·04	·11				·32			30
31		×		×		×	·16	·07	×		×			31
TOTAL	4·92	4·64	1·97	2·36	1·47	3·41	5·91	2·73	1·15	2·11	6·57	3·47	Year's Total 40·71	
* Days with .01 in. or more.	25	17	13	14	10	14	22	14	5	15	23	10	182	
* Days with .04 in. or more.	21	16	11	11	8	12	21	12	3	9	22	9	155	

† Spare column, no entries required.

*See Instruction 3 (f) on other side.

(*Signed*) Irwell Valley Water Board.

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations **Station No.** 2853

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19~~3~~40

Kept at Parsons Lane Bury

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 9 ft. 6 in.

" Ground " Sea Level 316 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1				·28					·01		·46	·18		1
2				·26			·08				·44	·22		2
3		·14	·01	·20			·28			·04	·07	·15		3
4		·10		·06			·10			·20	·24	·30		4
5		·02			·17		·08			·56	·02	·42		5
6	·08	·24					·03			·46	·02	·13		6
7	·06	·16	·01	·23	·07		·03	·17	·05	·04	·01			7
8		·08	·02	·01				·03		·26	·06	·36		8
9			·19				1·04	·23	·32	·50	1·40	·35		9
10			·04				·45	·23	·02	·23	·51	·50		10
11		·02	·13	·05		·02	·07				1·58			11
12			·35				·09	·06	·53		·36			12
13			·12					·07	·55		·08			13
14			·04	·31			·12	·06	·16		·08	·50		14
15			·04	·15	·09	·03			·03	·45	·08	·04		15
16	·03			·13			·28		1·25		·07	·10		16
17			·72		·23		·70		·19		·39	·03		17
18	·04	·12	·18	·30			·01	·26	·21			·30		18
19		·28	·24				·18		·32		·31			19
20		·01	·06	·25			·45	·34	·23	·19	·16			20
21			·25			·40	·21	·02		·03	·54			21
22		·01	·09		·22	·09		·03	·48		·01			22
23		·18	·02	·18	·02		·16		·09		·18			23
24	·54		·04						·03					24
25	·02					·02	·03			·03				25
26	·77	·16	·04	·01		·07					·03			26
27	·62	·58			·08		·47				·10			27
28	·18	·19			·13			·16				·07		28
29			·33			·27	·02			·03		·65		29
30		✕		·04						·38		·25		30
31		✕	·16	✕	·03	✕		·02	✕	·78	✕			31
													Year's Total	
TOTAL	2·34	2·29	3·08	2·46	1·04	·90	4·88	1·68	4·47	4·18	7·20	4·55	39·07	
* Days with .01 in. or more.	9	15	21	15	9	7	21	13	16	15	24	17	182	
* Days with .04 in. or more.	7	11	17	13	7	14	16	9	12	12	19	16	143	

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) R. Wyllie

P.T.O.

2854

Section **A** for the entry of

cond. for a

AIR MINISTRY

FORM 1090.

REGIST

Kept at Bridge H

in the County of Lanc

Diameter of Funnel of Gauge 5

Height of top of Gauge above Ground

,, Ground ,, Sea Le

THE MORNING MEASU

An observer who does not conform to t
year in the space on the right of this

2854

Bury. Bridge Hall

1931 — 40

780502

FOR OFFICIAL USE.

ORGANIZATION.

wing

Jan. 1, following

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·10	·0	·17	·08	·02	·0	·0	·0	·05	·08	·0	·0	1
2	·01	·07	·0	·62	·06	1·00	·0	·0	·92	·03	·06	·06	2
3	·0	·0	0	·06	·0	·13	·33	·0	·29	·0	1·63	·48	3
4	·0	·03	·0	·37	·0	·0	·09	·0	·67	·03	·16	·41	4
5	·0	·13	·0	0	·16	·92	·18	1·53	·09	·0	·0	·40	5
6	·0	·26	·0	·0	·04	·22	·39	·02	·38	·52	·30	·03	6
7	·0	·0	0	·0	·0	·45	·0	·27	·0	·36	·09	·17	7
8	·0	·26	·0	·08	·02	·0	·24	·32	·10	·04	·21	·01	8
9	·10	·76	·0	·22	·0	·06	·0	·30	·12	·03	·25	·07	9
10	·07	·22	·02	·0	·19	·29	·0	·12	·19	·0	·26	·0	10
11	·64	·83	·0	·05	·0	·0	·13	·02	·24	·0	·37	·0	11
12	·03	·17	·0	·02	·0	·0	·47	·0	·20	·21	·12	·01	12
13	·0	·35	·16	0	·04	·02	·47	·0	·0	·0	·0	·0	13
14	·14	·12	·0	0	·0	1·13	·27	·83	·02	·0	·49	·0	14
15	·28	·30	·0	·17	·15	·0	·18	·66	·0	·0	·01	·03	15
16	·64	·05	·0	·30	·30	·26	·06	·76	·28	·0	·0	·0	16
17	·08	·06	·0	·13	·06	·07	·47	·43	·04	·0	·10	·0	17
18	·40	·0	0	·08	·0	·48	·52	·12	·0	·0	·93	·0	18
19	·22	·28	·0	·01	·0	·0	·13	1·00	·0	·04	·0	·0	19
20	·03	·13	·03	0	·0	·10	·0	·10	·0	·0	·09	·0	20
21	·46	·0	·15	11	·13	·11	·03	·26	·0	0	·04	0	21
22	·29	·10	0	·03	·15	·05	·02	0	·0	0	·03	0	22
23	·29	·0	0	·24	·62	·20	·40	0	·0	0	·79	·31	23
24	·06	·24	0	·09	·49	0	·07	0	·0	0	·05	·06	24
25	·16	·91	0	·21	·08	0	·03	0	·0	0	·06	·15	25
26	·04	·15	0	·46	·0	0	0	0	0	0	·50	·03	26
27	·58	·10	0	·03	·15	0	·31	0	·0	·35	1·13	·04	27
28	·40	·23	0	·05	·10	0	·17	0	·05	0	0	·13	28
29	·28		0	·04	·16	0	·10	0	·0	·77	·02	0	29
30	·0	✗	0	0	·0	0	·03	0	·08	0	·01	0	30
31	·54	✗	0	✗	·0	✗	·18	0	✗	·03	✗	·11	31
TOTAL	5·84	5·75	·53	3·54	2·92	5·49	5·2~~8~~ 7	6·74	3·72	2·49	7·90	2·50	YEAR'S TOTAL 52·~~40~~ 69
*Days with ·01 in. or more.	23	22	5	21	18	16	24	15	16	12	24	17	213
*Days with ·04 in. or more.	20	21	3	17	16	15	20	13	15	8	20	12	180

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*See Instruction 2 (*f*) on other side.

(*Signed*) ....

[P.T.O.

2854

Section **A** for the entry of [redacted] FOR OFFICIAL USE.

cord. for a

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Bridge Hall Bury

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·10	·0	·17	·08	·02	·0	·0	·0	·05	·08	·0	·0	1
2	·01	·07	·0	·62	·06	1·00	·0	·0	·92	·03	·06	·06	2
3	·0	·0	0	·06	·0	·13	·33	·0	·29	·0	1·63	·48	3
4	·0	·03	·0	·37	·0	·0	·09	·0	·67	·03	·16	·41	4
5	·0	·13	·0	0	·16	·92	·18	1·53	·09	·0	·0	·40	5
6	·0	·26	·0	·0	·04	·22	·39	·02	·38	·52	·30	·03	6
7	·0	·0	0	·0	·0	·45	·0	·27	·0	·36	·09	·17	7
8	·0	·26	·0	·08	·02	·0	·24	·32	·10	·04	·21	·01	8
9	·10	·76	·0	·22	·0	·06	·0	·30	·72	·03	·25	·07	9
10	·07	·22	·02	·0	·19	·29	·0	·12	·19	·0	·26	·0	10
11	·64	·83	·0	·05	·0	·0	·13	·02	·24	·0	·57	·0	11
12	·03	·17	·0	·02	·0	·0	·47	·0	·20	·21	·12	·01	12
13	·0	·35	·16	0	·04	·02	·47	·0	·0	·0	·0	·0	13
14	·14	·12	·0	0	·0	1·13	·27	·83	·02	·0	·49	·0	14
15	·28	·30	·0	·17	·15	·0	·18	·66	·0	·0	·01	·03	15
16	·64	·05	·0	·50	·30	·26	·06	·76	·28	·0	·0	·0	16
17	·08	·06	·0	·13	·06	·07	·47	·43	·04	·0	·10	·0	17
18	·40	·0	·0	·08	·0	·48	·52	·12	·0	·0	·93	·0	18
19	·22	·28	·0	·01	·0	·0	·13	1·00	·0	·04	·0	·0	19
20	·03	·13	·03	0	·0	·10	·0	·10	·0	·0	·09	·0	20
21	·46	·0	·15	·11	·13	·11	·03	·26	·0	0	·04	0	21
22	·29	·10	0	·03	·15	·05	·02	0	·0	0	·03	0	22
23	·29	·0	0	·24	·62	·20	·40	0	·0	0	·79	·31	23
24	·06	·24	0	·09	·49	0	·07	0	·0	0	·05	·06	24
25	·16	·91	0	·21	·08	0	·03	0	·0	0	·06	·15	25
26	·04	·15	0	·46	·0	0	0	0	·0	0	·50	·03	26
27	·58	·10	0	·03	·15	0	·31	0	·0	·35	1·13	·04	27
28	·40	·23	0	·05	·10	0	·17	0	·05	0	0	·13	28
29	·28		0	·04	·16	0	·10	0	·0	·77	·02	0	29
30	·0	✕	0	0	·0	0	·03	0	·08	0	·01	0	30
31	·54	✕	0	✕	·0	✕	·18	0	✕	·03	✕	·11	31
TOTAL	5·84	5·75	·53	3·54	2·92	5·49	7 5·28	6·74	3·72	2·49	7·90	2·50	YEAR'S TOTAL 52·~~70~~ 69
*Days with ·01 in. or more.	23	22	5	21	18	16	24	15	16	12	24	17	213
*Days with ·04 in. or more.	20	21	3	17	16	15	20	13	15	8	20	12	180

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(Signed)

[P.T.O.

*See Instruction 2 (*f*) on other side.

Corrd. for Arith. 22·3·34.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2854

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Bridge Hall Bury

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level .... ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·27	·02	·0	·43	·05	·0	·13	·0	·74	·39	·12	·03	1
2	1·12	·0	·0	·0	·11	·0	·02	·05	1·19	·18	·12	·47	2
3	·04	·0	·0	·0	·0	·0	·17	·0	·07	·0	·0	·15	3
4	·07	·0	·0	·0	·0	·0	·29	·02	·03	·06	·12	·03	4
5	·95	·0	·12	·24	·05	·0	·02	·02	·11	·0	·0	·0	5
6	1·21	·0	·11	·32	·03	·0	·0	·0	·28	·0	·0	·0	6
7	·11	·0	·68	·17	·0	·0	·0	·0	·65	·45	·0	·0	7
8	·0	·0	·0	·15	·0	·0	·0	·0	·07	·71	·0	·0	8
9	·04	·0	·0	·41	·05	·0	·0	·0	·02	·02	·0	·05	9
10	·53	·05	·0	·04	·0	·0	·0	·0	·36	·37	·03	·0	10
11	·04	·03	·0	·04	·60	·04	·24	·02	·26	·02	·0	·0	11
12	·42	·0	·0	·0	·32	·02	·06	·04	·03	·47	·0	·0	12
13	·02	·02	·0	·09	·10	·0	·20	·07	·30	·58	·0	·31	13
14	·11	·0	·0	·04	·0	·0	·25	·08	·0	·17	·03	·0	14
15	·0	·0	·0	·0	·55	·0	·0	·0	·0	·17	·09	·12	15
16	·29	·0	·0	·02	·0	·0	·09	·0	·0	·19	·0	·14	16
17	·0	·0	·0	·0	·0	·0	·12	·06	·05	·44	·0	·0	17
18	·0	·0	·0	·0	·07	·0	·02	·0	·02	·03	·02	·0	18
19	·0	·0	·0	·18	·06	·0	·02	·0	·0	·37	·0	·0	19
20	·0	·0	·0	·20	·47	·0	·07	·27	·0	·15	·06	·02	20
21	·06	·0	·26	·27	·25	·0	·04	·27	·0	·30	·11	·02	21
22	·0	·0	·26	·21	·23	·0	·10	·0	·0	·04	1·00	·08	22
23	·0	·0	·0	·07	·79	·0	·11	·0	·0	·08	·17	·07	23
24	·05	·0	·0	·01	·0	·04	·46	·0	·20	·01	·18	·0	24
25	·0	·03	·0	·10	·06	·02	·03	·0	·06	1·00	·25	·0	25
26	·0	·0	·0	·11	·15	·0	·48	·0	·12	·33	·15	·0	26
27	·0	·0	·37	·29	·41	·20	·16	·0	·0	·08	·13	·10	27
28	·0	·0	·06	·35	·20	·0	·14	·0	·0	·0	·0	·04	28
29	·06	·0	·58	·19	·03	·10	·28	·41	·12	·90	·16	·34	29
30	·0	×	·26	·05	·10	·36	·10	·04	·0	·11	·35	·13	30
31	·02	×	·10	×	·02	×	·30	·0	×	·0	×	·06	31
TOTAL	5·41	·15	2·80	4·18	4·90	·78	3·~~0~~90	1·35	4·68	8·02	3·09	2·16	YEAR'S TOTAL 4~~4~~1·~~7~~62
*Days with ·01 in. or more.	18	5	10	23	22	7	25	12	19	26	17	17	201
*Days with ·04 in. or more.	16	1	10	21	19	5	20	9	15	22	14	13	169

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) Constance Wright

P.T.O.

Corrd. for Auth.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No 2854

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

B.D.

Kept at Bridge Hall Bury
in the County of Lancashire

Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level ft.

Dup K.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·04	·53	·03	0	0	0	·02	·02	·07	0	·36	0	1
2	·48	0	·17	·28	0	·13	0	·10	0	0	0	0	2
3	·02	·59	·32	0	·45	0	0	0	0	0	·03	0	3
4	·30	·11	·29	0	·14	0	0	0	0	·02	·01	0	4
5	·22	·20	·06	0	·12	0	0	0	0	0	·05	0	5
6	·03	·12	0	0	·44	0	0	0	0	0	·02	·03	6
7	·04	·39	·13	0	·04	0	·48	·04	0	·73	0	0	7
8	·33	·11	·17	·03	·07	0	·18	·03	0	0	0	·06	8
9	0	·31	0	·24	·12	0	·77	·04	0	·50	·15 ~~·05~~	0	9
10	·15	0	0	0	0	·03	·06	0	0	1·30	·19	0	10
11	0	0	0	·02	0	0	·84	·02	0	·34	0	·02	11
12	·03	0	0	0	0	·15	·24	0	0	·16	0	·10	12
13	0	0	·03	0	·19	0	·26	·03	0	·12	·30	0	13
14	·19	0	·04	0	·02	0	·04	·07	0	·04	·38	0	14
15	·14	0	·04	0	0	·03	·03	·09	0	·25	·23	0	15
16	·08	·04	·18	·05	·03	·27	·07	·01	0	·34	·03	0	16
17	·04	0	·86	·05	0	·67	0	·46	·06	0	·02	0	17
18	·04	·03	·26	0	·07	·44	0	·03	0	0	0	0	18
19	0	0	·32	0	0	·01	·01	·02	·50	0	·16	·03	19
20	0	·12	0	0	0	·36	0	·33	·22	0	0	0	20
21	0	0	0	0	0	0	0	·49	·13	0	0	0	21
22	0	0	0	0	0	0	0	·07	0	·06	0	0	22
23	0	0	0	·33	·05	·03	0	·04	·04	·08	0	0	23
24	0	·06	0	·17	·12	·24	0	0	·52	0	0	0	24
25	0	·37	0	·14	·01	0	0	0	·17	0	0	·10	25
26	0	·50	0	·43	0	0	0	0	0	·39	·02	·02	26
27	0	0	0	0	·49	0	·01	0	·02	0	0	0	27 17²
28	0	0	0	·06	0	0	·09	0	0	·15	0	0	28
29	0		0	·02	0	0	·04	0	0	0	0	·07	29
30	·04	X	·03	·20	·03	0	·17	0	0	·29	0	·26	30
31	·40	X	·08	X	0	X	·24	·12	X	·32	X	0	31
TOTAL	2·54	3·48	3·01 ~~2·91~~	2·02	2·39	2·36	5 3·~~6~~5	2·01	1·73	5·09	5 1·9~~6~~	·69	YEAR'S TOTAL 2 30·8~~3~~
*Days with ·01 in. or more.	17	14	16	13	16	11	17	18	9	16	14	9	170
*Days with .04 in. or more.	14	13	13	10	12	7	13	11	8	15	8	5	129

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*)

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2854

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Bridge Hall Bury

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·15	0	·02	0	0	0	0	·06	·12	·05	·11	·41		1
2	0	·03	·14	0	·05	0	0	·53	·06	0	·24	·55		2
3	·10	0	0	0	0	0	0	·03	·04	·19	·12	·06		3
4	·18	0	·12	·05	·04	0	0	·04	·04	·85	0	·95		4
5	0	0	·08	0	·10	0	0	·53	·02	·33	·03	·23		5
6	0	0	·08	·74	·49	·04	0	·13	0	·26	0	·31		6
7	·42	·05	·08	·05	0	·11	0	·01	0	·05	·36	·40		7
8	0	0	0	0	·10	·75	0	·05	·02	·11	·68	·02		8
9	0	·05	·07	0	0	0	0	·15	0	·02	·18	·04		9
10	0	·02	·35	·04	0	0	0	·34	0	·40	·05	0		10
11	·10	0	0	·57	0	0	0	·38	0	·02	·02	·18		11
12	·01	0	·01	·24	0	0	·03	·06	0	·07	0	·07		12
13	·38	0	0	·06	·06	0	·18	·03	0	·29	0	0		13
14	·28	0	·12	0	·10	0	·02	0	0	·38	0	·11		14
15	·46	0	·30	0	·66	·01	·02	·10	·12	·02	·03	·30		15
16	·54	0	·16	0	·16	0	0	0	0	·03	0	·04		16
17	·41	0	·37	·03	·12	0	·25	·01	·32	·07	0	·25		17
18	·29	0	·17	·16	·58	·11	0	·03	0	0	0	·25		18
19	0	0	·23	0	·06	·38	0	0	·35	·22	0	·03		19
20	0	0	·03	·15	·33	0	0	·05	·16	·12	0	0		20
21	·10	0	·03	0	·07	·50	0	·06	·06	·11	·02	0		21
22	·07	0	·03	0	0	0	0	·14	·59	·13	0	0		22
23	·02	0	·08	·45	0	0	·58	·08	·02	·19	·04	·10		23
24	0	·22	·08	·27	·01	·04	·03	0	·38	·20	0	0		24
25	·11	·19	0	·11	·03	0	·11	0	·24	·30	0	·46		25
26	·12	0	·03	·15	0	·08	·26	0	·19	·05	·03	·07		26
27	0	0	0	·04	0	·23	·33	0	·03	·54	·03	·35		27
28	0	0	0	·03	0	·14	·22	·28	0	·40	0	·80		28
29	0		0	0	0	0	·12	·69	·43	·14	0	·13		29
30	·07	×	0	0	0	0	·06	·41	·28	·24	0	·05		30
31	·02	×	0	×	0	×	·20	·02	×	·04	×	·17		31
TOTAL	3·63	·56	2·58	2·54	2·96	2·39	2·41	4·24	3·47	5·83	1·94	6·33	Year's Total. 39·65	
* Days with .01 in. or more.	19	6	21	16	16	11	14	24	19	29	14	25	214	
* Days with .04 in. or more.	16	4	15	14	14	10	10	18	15	25	8	23	173	

39.05

40-9999

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) Constance Wrigley

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No 2854

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Bridge Hall Bury

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level ft.

check ✓

GR

Gsm

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·55	·37	·02	·02	·0	·05	·10	·0	·15	1·06	·13	·37	1
2	·02	·16	·03	·0	·0	·32	·01	·0	·06	·12	·05	·28	2
3	·06	·86	·11	·12	·0	·08	·50	·0	·45	·06	·09	·24	3
4	·0	·02	·02	·03	·0	·33	·04	·0	·36	·25	·0	·0	4
5	·0	·49	·19	·24	·0	·14	·04	·02	·18	·07	·20	·26	5
6	·0	·0	·0	·08	·0	·34	·0	·0	·0	·0	·0	·01	6
7	·0	·0	·0	·15	·0	·15	·0	·0	·0	·26	·20	·30	7
8	·0	·02	·0	·11	·0	·01	·0	·0	·0	·28	·04	·56	8
9	·10	·0	·0	·47	·0	·05	·0	·0	·0	1·65	·18	·0	9
10	·20	·03	·0	·18	·0	·03	·01	·0	·0	·36	·16	·01	10
11	·30	·10	·0	·0	·0	·12	·0	·02	·0	·34	·06	·0	11
12	·0	·14	·0	·0	·0	·62	·0	·0	·05	·0	·0	·0	12
13	·17	·10	·0	·10	·22	·0	·0	·0	·17	·14	·02	·0	13
14	·0	·01	·0	·06	·06	·06	·0	·02	·10	·0	1·30	·26	14
15	·0	1·45	·0	·35	·06	·0	·02	·0	·65	·11	·11	·32	15
16	·0	·32	·11	·35	·02	·31	·17	·0	·77	·02	·11	·0	16
17	0	·03	·0	·44	·58	·18	·12	·04	·29	·05	·35	·0	17
18	0	·04	·0	·10	·09	·09	·43	·0	·44	·33	·16	·0	18
19	·0	·04	·0	·16	·02	·29	·23	·0	·0	·16	·23	·0	19
20	·0	·35	·0	·43	·0	·17	·12	·0	·0	·0	·01	·0	20
21	·0	·15	·03	·0	·0	·0	·0	·0	1·09	·23	·02	·07	21
22	·02	·17	·05	·20	·0	·0	·0	·0	·04	·0	·0	0	22
23	·0	·0	·93	·18	·0	·0	·0	·33	·04	·37	·0	0	23
24	·52	·40	·05	·01	·0	·0	·0	·02	1·28	·09	·0	·15	24
25	·20	·04	·18	0	·0	·09	·0	·0	0	·0	·06	·03	25
26	·0	·0	·0	·0	·0	·0	·05	1·14	·47	·43	·13	·28	26
27	·0	·06	·0	·0	·05	·05	·35	·02	·23	1·11	·41	·10	27
28	·06	·09	·04	·0	·05	·0	·0	·0	·11	·44	·17	·0	28
29	·02		·0	·0	·0	·0	·0	·04	·16	·67	·11	·18	29
30	·08	×	·0	·0	·0	·21	·0	·29	·42	·37	·86	·07	30
31	·06	×	·02	×	·0	×	·0	·0	×	·17	×	·41	31
TOTAL	14 ✓	23 ✓	13 ✓	20 ✓	9 ✓	21 ✓	14 ✓	10 ✓	21 ✓	25 ✓	24 ✓	18 ✓	YEAR'S TOTAL 212
*Days with ·01 in. or more.	11 ✓	18 ✓	8 ✓	167	7 ✓	19 ✓	11 ✓	5 ✓	21 ✓	24 ✓	21 ✓	15 ✓	177
*Days with .04 in. or more.	2·35 ✓	5·44 ✓	1·78 ✓	3·75 ✓	1·15 ✓	3·69 ✓	2·19 ✓	9 1·64	7·51 ✓	9·44 ✓	5·16 ~~4·96~~ ✓	3·90 ✓	48·30 ~~47·60~~

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) Constance Wyld

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2854

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1936

Kept at Bridge Hall Bury

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

„ Ground „ Sea Level .... ft.

Ann. total corr for auth.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	·02	·09	·04	·18	·0	·18	·0	·36	·0	·0	·22	·22		1
2	·01	·0	·0	·05	·0	·20	·0	·15	·06	·0	·05	·17		2
3	·0	·0	·0	·0	0	·18	·08	·21	·04	·0	·0	·09		3
4	·37	·0	·24	·0	0	·0	·0	·26	1·50	·02	·04	·25		4
5	·09	·38	·39	·0	·0	·02	·03	·24	·65	·0	·13	·30		5
6	·05	·0	·03	·0	·0	·03	·05	·47	·43	·0	·17	·0		6
7	·0	·0	·16	·0	·0	·0	·06	·0	·79	·0	·63	·28		7
8	·39	0	·27	·0	·0	·0	·0	·0	·91	·0	1·38	·21		8
9	·32	·0	·04	0	·0	·0	·44	·0	·0	·0	·94	·0		9
10	·14	·0	0	·0	·0	·0	·38	·0	·07	·0	·44	·0		10
11	·0	·0	·0	·01	·0	·18	·61	·03	·02	·0	·10	·02		11
12	·0	·0	·0	·08	·05	·71	·48	04	·37	·09	·02	·0		12
13	·0	·0	·0	·04	·02	02	·08	·0	·0	·29	·27	·44		13
14	·0	·0	·0	·05	·0	·59	·10	·08	·35	·30	·48	·69		14
15	·0	·0	·0	·09	·08	·16	·06	·25	·04	·0	·65	·09		15
16	·07	·15	·02	·03	·0	0	·05	·0	·0	·03	·07	·0		16
17	0	·35	0	·04	·02	0	·11	·21	·0	·60	·0	·19		17
18	·0	·05	·0	·03	·0	·24	·23	·14	·0	·86	·0	·02		18
19	·11	·24	·04	·06	·0	08	·16	·32	·0	·15	·0	·0		19
20	·60	·07	·02	·0	·0	0	·03	·02	·0	·03	·0	·02		20
21	·05	·0	·0	·04	·0	02	·0	·0	·0	·06	·0	·0		21
22	·22	·27	·06	·0	·0	86	·20	·0	·0	·0	·0	·05		22
23	·12	·03	·20	·29	·0	0	·81	·0	·0	·06	·0	·01		23
24	·09	·0	0	·06	·0	0	·0	·0	·12	·77	·0	·05		24
25	·48	·0	·0	·02	·0	0	·10	·0	·39	·56	·0	·03		25
26	·02	·21	·02	·05	·0	0	·04	0	·05	·74	·0	·0		26
27	·90	·03	·08	·0	·0	0	·0	·0	·17	·43	·03	·0		27
28	·28	·28	·07	·0	·06	0	·12	·0	·0	·0	·0	·10		28
29	·08	·31	·96	·0	·38	54	·0	·0	·0	·13	·17	·11		29
30	·28	✕	0	·0	·01	08	·39	·0	·0	·48	·15	·06		30
31	·04	✕	0	✕	0	✕	·12	·02	✕	0	✕	·48		31
TOTAL	4·73	2·46	2·64	1·12	·82	4·08	4·73	2·80	5·96	5·60	6·11	4·08	Year's Total 45·13 ~~45·03~~	✓
* Days with .01 in. or more.	22	13	16	16	7	16	22	15	16	17	18	22	200	✓
* Days with .04 in. or more.	19	11	12	12	4	12	21	12	15	14	16	17	165	✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) Constance Wright

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2854

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937

Kept at Bridge Hall Bury

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level .... ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·05	·20	·08	·0	·0	·03	·04	·0	·39	·0	·01	·21		1
2	·23	·30	·11	·23	·0	·0	·0	·0	·03	·0	·0	·03		2
3	·0	·23	·05	·03	·10	·66	·10	·0	·02	·0	·0	·0		3
4	·24	·01	·02	·13	·15	·01	·03	·0	·0	·0	·0	·05		4
5	1·35	·0	·04	·02	·02	·02	·01	·0	·0	·0	·0	·29		5
6	·08	·0	·0	·12	·11	·0	·0	·42	·05	·0	·0	·02		6
7	·03	·10	·0	·37	·05	·05	·0	·01	·08	·0	·0	·02		7
8	·0	·49	·0	·03	·0	·09	·06	·01	·0	·0	·02	·01		8
9	·02	·31	·0	·06	·20	·02	·56	·36	·01	·0	·0	·01		9
10	·02	·11	·0	·0	·0	·06	·02	·01	·0	·01	·0	·32		10
11	·0	·02	·09	·0	·09	·0	·02	·02	·0	·0	·0	·03		11
12	·07	·45	·10	·0	·03	·05	·06	·06	·24	·0	·0	·23		12
13	·0	·20	·0	·0	·0	·40	·0	·15	·02	·02	·0	·22		13
14	·0	·09	·12	·0	·0	·0	·0	·42	·10	·02	·02	·20		14
15	·25	·41	·02	·40	·0	·0	·41	·0	·33	·0	·0	·04		15
16	·06	·55	·12	·46	·26	·02	·01	·14	·11	·0	·0	·01		16
17	·05	·05	·32	·09	·02	·0	·0	·04	·13	·0	·0	·0		17
18	·31	·35	·13	·08	·0	·0	·0	·28	·0	·0	·35	·0		18
19	·09	·41	·06	·20	·0	·04	·03	·05	·0	·0	·52	·0		19
20	·12	·24	·0	·12	·35	·04	·0	·01	·01	·0	·0	·19		20
21	·0	·06	·02	·14	·04	·0	·47	·0	·0	·04	·0	·26		21
22	·06	·02	·05	·05	·05	·0	·10	·0	·0	·50	·33	·19		22
23	·16	·0	·08	·0	·47	·0	·25	·0	·0	·36	·16	·0		23
24	·11	·21	·14	·0	·07	·0	·09	·0	·18	·27	·01	·01		24
25	·0	·42	·0	·0	·0	·0	·0	·09	·0	·07	·0	·05		25
26	·0	·26	·0	·0	·43	·0	·0	·04	·07	·0	·0	·06		26
27	·0	·26	·0	·17	·0	·0	·0	·0	·0	·29	·0	·0		27
28	·0	·59	·0	·0	·0	·04	·0	·0	·0	·18	·0	·0		28
29	·01		·0	·0	·0	·04	·0	·01	·0	·06	·10	·0		29
30	·05	✗	·0	·0	·0	·31	·0	·19	·0	·10	·66	·0		30
31	·31	✗	·0	✗	·0	✗	·0	·08	✗	·23	✗	·02		31
TOTAL	3·67	6·34	1·55	2·70	2·44	1·88	2·26	2·39	1·77	2·15	2·38	2·47	Year's Total 32·00	32·00 ✓
* Days with .01 in. or more.	21	25	17	17	16	16	16	19	15	13	10	22	204	✓
* Days with .04 in. or more.	17	22	14	14	13	11	10	13	10	10	6	13	153	✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) Constance Wright

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2854

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

Kept at Bridge Hall Bury

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level .... ft.

Entry on 28th Sept. estd. from nearby stns. to agree with monthly total. W.S.R.

Circ D sent 3/39. do. agrees with amendments. W.S.R.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·01	·02	0	0	0	·78	0	·11	0	·04	·18	·34		1
2	·02	·05	0	·38	·05	·37	0	0	0	1·33	·10	·35		2
3	·02	0	0	·02	0	·05	·04	0	·18	1·46	·17	·04		3
4	·01	0	·01	·05	0	·02	·31	·10	0	·32	·25	1·00		4
5	·03	·03	0	·07	0	·09	·13	·02	·05	·65	0	·07		5
6	·18	0	0	0	0	·03	·30	0	·31	·37	0	·03		6
7	·28	0	0	0	0	0	·67	·01	·12	·37	0	0		7
8	·44	0	0	0	0	0	·19	·04	0	·90	0	·32		8
9	·16	·65	·13	0	·01	·29	·11	·01	0	·11	0	·32		9
10	0	·07	·03	0	0	·28	·65	0	0	·12	0	·04		10
11	·19	·09	0	0	·05	·05	·17	·06	·03	·11	·09	·05		11
12	·24	0	0	0	·19	0	·01	·04	0	1·36	·27	·01		12
13	·02	·05	0	0	·04	0	·06	0	·06	·31	·26	·29		13
14	·18	·03	0	0	·16	0	·12	0	·06	·02	·02	·02		14
15	·40	0	·01	·01	0	0	·32	·31	·02	·03	0	·34		15
16	·58	0	·05	0	·10	0	·13	·17	0	·08	·14	·09		16
17	0	0	0	0	·37	0	·16	·17	·08	·57	·03	·04		17
18	·14	0	0	0	·13	·15	0	·41	0	·48	·34	0		18
19	0	0	0	0	0	·02	0	·33	·04	0	0	0		19
20	·28	0	0	0	0	0	0	·09	·15	0	·46	0		20
21	0	0	·05	0	0	0	0	·10	·02	0	·06	0		21
22	·01	0	0	·02	0	·24	0	0	0	0	·42	·09		22
23	·01	0	0	0	·19	·46	0	0	·03	0	·49	0		23
24	·22	·05	·22	0	·05	·12	·02	·39	·05	0	·28	0		24
25	·25	·48	·10	0	·02	·06	·19	·09	0	·53	·68	·02		25
26	·22	·35	·25	0	·10	·10	0	0	·03	·31	·28	·16		26
27	·36	·16	·02	0	·46	·89	·15	·16	·05	0	·30	0		27
28	·40	·07	·13	0	·14	·80	·13	·20	·07	·04	·04	·14		28
29	·13		·15	0	1·03	·15	·21	·01	0	·15	·07	·41		29
30	·42	✕	·02	0	·11	·16	·05	0	·47	0	·23	·04		30
31	·25	✕	·01	✕	·37	✕	0	0	✕	·54	✕	1·05	48·14	31
													Year's Total	
TOTAL	5·65	2·10	1·18	·55	3·77	5·11	4·12	3·02	1·82	10·20	5·36	5·26	~~44·93~~	
* Days with .01 in. or more.	27	13	14	6	18	20	21	20	17	23	22	23	224	
* Days with .04 in. or more.	19	10	8	3	16	17	19	16	12	21	20	19	180 ~~190~~	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) Constance Ripley

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** **for the entry of Daily Observations.** **Station No.** 2854

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1939.

Kept at Bridge Hall. Bury

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level .... ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·32	·0	·18	·17	·0	·0	·02	·04	·04	·02	·0	·47		1
2	·09	·0	·0	·12	·0	·0	·40	·88	·60	·0	·03	·12		2
3	·0	·0	·0	·08	·0	·0	·0	·05	·08	·0	·08	·77		3
4	·0	·0	·44	·35	·0	·0	·45	·0	·0	·0	·03	·72		4
5	·0	·0	·0	·0	·32	·0	·20	·05	·01	·19	·23	·03		5
6	1·28	·22	·0	·0	·0	·0	·57	·0	0	·0	·26	·0		6
7	·30	·41	·12	·0	·06	·0	·08	·03	0	·0	·07	·39		7
8	·30	·10	·25	·03	·0	·0	·53	·09	0	·08	·16	·52		8
9	·09	·50	·0	·0	·0	·0	·02	·80	0	·41	·08	·54		9
10	·03	·03	·04	·0	·0	·13	·0	·15	·42	·17	·04	·08		10
11	·39	·03	·27	·0	·0	·21	·0	·01	0	·01	·01	·0		11
12	·09	·15	·0	·0	·0	·06	·0	·0	0	·0	·0	·0		12
13	·36	·0	·0	·27	·11	·16	·06	·0	·06	·06	·0	·0		13
14	·68	·0	·0	·02	·41	·49	·31	·0	0	·01	·24	·0		14
15	·09	·05	·0	·78	·04	1·29	·21	·0	0	·0	·14	·0		15
16	·09	·0	·06	·0	·23	·0	·21	·0	0	·04	·10	·0		16
17	·73	·30	·02	·06	·10	·03	·0	·0	0	·17	·09	·0		17
18	·08	·21	·03	·0	·0	·19	·21	·0	0	·0	·72	·0		18
19	·23	·0	·0	·0	·02	·03	·14	·0	0	·0	·01	·0		19
20	·04	·0	·0	·0	·0	·08	·10	·32	0	·0	·0	·0		20
21	·12	·11	·57	·12	·07	·0	0	·21	0	·0	·0	·0		21
22	·09	·21	·12	·0	·0	·0	·21	·0	0	·03	·69	·0		22
23	0	·39	·02	·22	·0	·0	·06	·0	0	·43	·23	·03		23
24	0	·03	·0	·08	·0	·03	·05	·0	0	·02	·02	·0		24
25	·17	·25	·04	·0	·0	·0	·01	·0	0	·0	1·43	·0		25
26	0	·06	·02	·0	·03	·0	·0	·85	0	·15	·45	·03		26
27	·04	1·57	·06	·0	·0	·47	·07	·05	0	·03	·36	·07		27
28	0	·23	·08	·0	·0	·31	·65	·0	0	·0	·85	·0		28
29	0		·02	·0	·0	·0	1·25	·0	0	·11	·26	·0		29
30	0	✕	0	·0	·0	·03	·11	·0	0	·0	·28	·0		30
31	0	✕	0	✕	·0	✕	·28	·02	✕	·01	✕	·0		31
TOTAL	5·61	4·85	2·34	2·30	1·39	3·51	6·20	3·55	1·21	1·94	6·86	3·77	Year's Total 43·53	
* Days with .01 in. or more.	21	18	17	12	10	14	24	14	6	17	25	12	190	
* Days with .04 in. or more.	20	15	12	10	8	10	21	11	5	10	20	9	151	

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) .... [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2854

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19~~3~~40

Kept at Bridge Hall, Bury
in the County of Lancashire
Diameter of Funnel of Gauge 5 inches
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level .... ft.

Totals

Jan 26th-27th estd from nearby stns

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following: 9

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·0	·04	·0	·25	·0	·0	0	·0	·03	·0	·47	·25		1
2	·0	·01	·0	·23	·0	·0	·08	·0	·0	·0	·47	·20		2
3	·02	·06	·0	·18	·0	·0	·20	·0	·0	·09	·05	·20		3
4	·0	·06	·0	·09	·0	·0	·11	·0	·0	·16	·22	·36		4
5	·0	·02	·0	·0	·17	·0	·15	·0	·0	·62	·03	·56		5
6	·05	·13	·0	·0	·0	·0	·06	·0	·0	·50	·02	·14		6
7	·07	·27	·0	·23	·07	·0	·07	·19	·08	·04	·0	·0		7
8	·02	·0	·02	·03	·0	·0	·0	03	·27	·21	·06	·32		8
9	·0	·0	·15	·0	·0	·0	1·15	24	·0	·66	1·20	·26		9
10	·0	·0	·0	·0	·0	·0	·47	28	·08	·24	·74	·47		10
11	·0	·0	·06	·05	·0	·04	·06	·0	·02	·0	1·57	·13		11
12	·0	·02	·42	·0	·0	·03	·08	·07	·54	·0	·39	·0		12
13	·0	·0	·10	·0	·0	·0	·0	·09	·63	·0	·10	·04		13
14	·0	·07	·0	·31	·08	·0	·30	·07	·23	·0	·13	·52		14
15	·0	0	·07	·15	·15	·04	·0	·0	·03	·0	·07	·05		15
16	·06	·0	15	·15	·0	·0	·41	·0	1·35	·46	·03	·10		16
17	·0	·0	·54	·03	·15	·0	·68	·0	·25	·0	·39	·03		17
18	·0	·18	·20	·33	·0	·0	·04	·26	·20	·0	·02	·30		18
19	·0	20	·23	·06	·0	·0	·19	·0	·32	·02	·25	·0		19
20	·0	·06	·05	·26	·0	·0	·85	·41	·27	·10	·21	·0		20
21	·0	·0	·25	·01	·0	·30	·39	·04	·0	·10	·62	·0		21
22	·0	·01	·09	·0	·17	·16	·02	·06	·53	·0	·0	·0		22
23	·0	·15	·03	·17	·01	·01	·13	·0	·09	·0	·20	·0		23
24	·45	·01	·03	·0	·0	·0	·0	·0	·04	·02	·0	·01		24
25	·13	·0	·0	·0	·01	·01	·0	·0	·0	·03	·0	·0		25
26	~~·98~~	·13	·13	·0	·01	·13	·03	·0	·0	·0	·05	·0		26
27	(1·28) 1·~~30~~	·36	·0	·02	·05	·0	·30	·0	·0	·0	·12	·0		27
28	·28	·38	·0	·0	·10	·0	·0	·17	·0	·0	·0	·06		28
29	·0	0	·26	·0	·0	·31	·03	·0	·0	·03	·0	·70		29
30	·0	✕	·01	·02	·0	·0	0	·0	·0	·38	·03	·35		30
31	·21	✕	·17	✕	·03	✕	0	·02	✕	·79	✕	·01		31
TOTAL	2·57 ~~3·64~~	2·[illegible]	2·96	2·62	1·00	1·03	5·80	1·90	4·96	4·45	7·44	5·06	Year's Total 4~~2~~1·95	
* Days with ·01 in. or more.	11	18	19	18	12	9	22	13	17	17	24	21	201	
* Days with ·04 in. or more.	9	13	14	13	7	6	19	11	14	13	19	18	~~156~~	156

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) Constance Wrigley

P.T.O.

2855

Section **A** for the entry of

AIR MINISTRY

FORM 1090.

REGIST

Kept at Bradshaw Sewag

in the County of Lancaste

Diameter of Funnel of Gauge 5

Height of top of Gauge above Groun

,, Ground ,, Sea Le

THE MORNING MEASU

An observer who does not conform to

year in the space on the right of thi

2855

BRADSHAWE SEWAGE WKS

1931 — 35

780502

PY FOR OFFICIAL USE.

ORGANIZATION.

23/2/32

owing

Jan. 1, following

0·10

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.								in.	in.	
1	·03	·45	·15	–	·02	–	–	·16	–	·17	·04	–	1
2	·15	·02	·10	·07	–	–	–	–	·02	·14	–	–	2
3	·05	·10	–	·58	–	1·05	–	–	1·05	·03	·04	·09	3
4	–	–	–	·05	–	·17	·33	–	·28	·04	1·40	·23	4
5	–	·02	–	·44	–	–	·12	·05	·88	·05	·19	·43	5
6	–	·15	–	–	·13	·76	·32	·88	·20	–	·01	·39	6
7	–	·34	–	·02	·07	·45	·16	·02	·20	·58	·31	·03	7
8	–	·04	–	·09	–	·74	–	·24	–	·40	·09	·19	8
9	–	·27	–	–	–	·02	·13	·38	·08	·03	·21	·03	9
10	·12	·73	–	·24	·02	·04	–	·37	·09	·06	·28	·14	10
11	·13	·37	–	–	·21	·80	–	·38	·09	–	·31	·02	11
12	·94	·93	–	·09	–	·02	·18	·02	·37	–	·72	–	12
13	·07	·46	–	·04	–	–	·54	–	·15	·45	·10	–	13
14	–	·06	·15	–	·12	·03	·18	·06	–	–	–	–	14
15	·21	·17	–	·02	–	1·06	·18	·80	·02	–	·59	·03	15
16	·73	·42	–	·21	·14	–	·15	·19	–	–	–	·02	16
17	·55	·08	–	·70	·30	·19	·09	1·08	·32	–	–	–	17
18	·09	·04	–	·15	·09	·13	·65	·42	·13	–	·13	–	18
19	·69	–	–	·07	–	·42	·59	·13	–	–	·72	–	19
20	·35	·31	–	·02	–	–	·30	1·28	–	·02	–	–	20
21	·06	·23	·10	–	–	·26	·04	·09	–	–	·09	·03	21
22	·52	·03	·15	–	·10	·16	·02	·10	–	–	–	–	22
23	·41	·08	–	·05	·15	·06	·04	–	–	–	·11	–	23
24	·34	–	–	·26	·47	·18	·18	–	–	–	·86	·37	24
25	·04	·31	–	·10	·63	–	·10	–	–	–	·11	·07	25
26	·37	1·33	–	·31	·19	–	–	–	–	–	·05	·22	26
27	·07	·22	–	·46	–	–	–	–	–	–	·67	·04	27
28	·77	·11	–	·06	·15	–	·35	–	–	·45	1·61	·05	28
29	·65	×	–	·08	·29	–	·29	–	·10	–	–	·14	29
30	·27	×	–	–	·17	–	·15	–	–	·99	·03	–	30
31	–	×	–	×	–	×	·02	–	×	–	×	–	31
TOTAL	·45 ~~7·61~~ 8·03	·15 ~~7·27~~ 6·97	– ~~0·65~~ 0·50	·02 ~~4·11~~ 4·13	– ~~3·25~~ 3·23	– 6·54	·16 ~~5·11~~ 5·27	– ~~6·65~~ 6·49	·17 ~~3·98~~ 4·15	·04 ~~3·41~~ 3·28	– ~~8·67~~ 8·63	·10 ~~2·52~~ 2·62	YEAR'S TOTAL 59·84 ~~59·77~~
*Days with ·01 in. or more.	23	25	~~5~~4	~~22~~23	~~17~~16	18	~~23~~24	~~18~~17	~~15~~16	13	~~23~~22	~~18~~19	220
*Days with ·04 in. or more.	~~22~~23	22	~~5~~4	19	15	15	~~21~~22	~~16~~15	~~12~~14	10	~~21~~20	~~12~~13	192 ~~191~~

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) Vincent W Laithwaite. [P.T.O.

2855

Section **A** for the entry of PY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Bradshaw Sewage Works

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 328·80 ft.

Corr for WD

WD. ✓

28/2/32 ✓

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following
0·10

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·03	·45	·15	–	·02	–	–	·16	–	·17	·04	–	1
2	·15	·02	·10	·07	–	–	–	–	·02	·14	–	–	2
3	·05	·10	–	·58	–	1·05	–	–	1·05	·03	·04	·09	3
4	–	–	–	·05	–	·17	·33	–	·28	·04	1·40	·23	4
5	–	·02	–	·44	–	–	·12	·05	·88	·05	·19	·43	5
6	–	·15	–	–	·13	·76	·32	·88	·20	–	·01	·39	6
7	–	·34	–	·02	·07	·45	·16	·02	·20	·58	·31	·03	7
8	–	·04	–	·09	–	·74	–	·24	–	·40	·09	·19	8
9	–	·27	–	–	–	·02	·13	·38	·08	·03	·21	·03	9
10	·12	·73	–	·24	·02	·04	–	·37	·09	·06	·28	·14	10
11	·13	·37	–	–	·21	·80	–	·38	·09	–	·31	·02	11
12	·94	·93	–	·09	–	·02	·18	·02	·37	–	·72	–	12
13	·07	·46	–	·04	–	–	·54	–	·15	·45	·10	–	13
14	–	·06	·15	–	·12	·03	·18	·06	–	–	–	–	14
15	·21	·17	–	·02	–	1·06	·18	·80	·02	–	·59	·03	15
16	·73	·42	–	·21	·14	–	·15	·19	–	–	–	·02	16
17	·55	·08	–	·70	·30	·19	·09	1·08	·32	–	–	–	17
18	·09	·04	–	·15	·09	·13	·65	·42	·13	–	·13	–	18
19	·69	–	–	·07	–	·42	·59	·13	–	–	·72	–	19
20	·35	·31	–	·02	–	–	·30	1·28	–	·02	–	–	20
21	·06	·23	·10	–	–	·26	·04	·09	–	–	·09	·03	21
22	·52	·03	·15	–	·10	·16	·02	·10	–	–	–	–	22
23	·41	·08	–	·05	·15	·06	·04	–	–	–	·11	–	23
24	·34	–	–	·26	·47	·18	·18	–	–	–	·86	·37	24
25	·04	·31	–	·10	·63	–	·10	–	–	–	·11	·07	25
26	·37	1·33	–	·31	·19	–	–	–	–	–	·05	·22	26
27	·07	·22	–	·46	–	–	–	–	–	–	·67	·04	27
28	·77	·11	–	·06	·15	–	·35	–	–	·45	1·61	·05	28
29	·65	X	–	·08	·29	–	·29	–	·10	–	–	·14	29
30	·27	X	–	–	·17	–	·15	–	–	·99	·03	–	30
31	–	X	–	X	–	X	·02	–	X	–	X	–	31
	·45	·15	–	·02	–	–	·16	–	·17	·04	–	·10	YEAR'S TOTAL
TOTAL	~~7·61~~ 8·03	~~7·27~~ 6·97	~~0·65~~ 0·50	~~4·11~~ 4·13	~~3·25~~ 3·23	6·54 ✓	~~5·11~~ 5·27	~~6·65~~ 6·49	~~3·98~~ 4·15	~~3·41~~ 3·28	~~8·67~~ 8·63	~~2·52~~ 2·62	~~59·77~~ 59·84
*Days with ·01 in. or more.	23 ✓	25 ✓	~~5~~4	~~22~~23	~~17~~16	18 ✓	~~23~~24	~~18~~17	~~15~~16	13 ✓	~~23~~22	~~18~~19	220 ✓
*Days with ·04 in. or more.	~~22~~23	22 ✓	~~5~~4	19	15	15 ✓	~~21~~22	~~16~~15	~~12~~14	10 ✓	~~21~~20	~~12~~13	~~191~~ 192

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*See Instruction 2 (*f*) on other side.

(Signed) Vincent W Laithwaite. [P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2855

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Bradshaw Sewage Works.

in the County of Lancaster.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 328·80 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following 0·10

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·10	-	-	·04	-	-	·39	·15	-	·13	-	·47	1
2	·39	·02	-	·46	·06	-	·11	·03	·73	·21	·17	·20	2
3	1·37	-	-	-	·15	-	·04	·05	1·23	·26	·12	·50	3
4	·03	-	-	·03	-	-	·13	-	·15	-	·01	·18	4
5	·06	-	-	-	-	-	·42	-	·05	·04	·09	·04	5
6	·98	-	·10	·55	·04	-	-	-	·16	-	-	-	6
7	·95	-	·16	·59	-	-	-	-	·19	-	-	-	7
8	·09	-	·74	·13	-	-	-	-	·79	·62	-	-	8
9	-	-	-	·19	-	-	-	-	·21	·55	-	-	9
10	·12	-	-	·29	·04	-	-	-	·07	-	-	·04	10
11	·46	-	·02	·07	-	-	-	-	·82	·45	-	-	11
12	·06	·02	-	·04	·85	·01	·31	-	·07	·03	-	-	12
13	·34	-	-	-	·68	·13	·10	·11	·04	·48	-	-	13
14	·01	·03	-	·06	·19	-	·21	·02	·39	·50	-	·47	14
15	·17	-	-	·08	-	-	·37	·17	-	·19	·06	·07	15
16	-	-	-	-	·75	-	-	-	-	·26	·06	·10	16
17	·30	-	-	-	-	-	·69	-	-	·28	-	·17	17
18	-	-	-	·01	-	-	·05	·07	·06	·42	-	-	18
19	-	-	-	-	·16	-	-	-	-	·08	-	-	19
20	-	-	-	·18	·08	-	·03	-	-	·44	-	-	20
21	-	-	-	·17	·41	-	·08	·29	-	·17	·12	·05	21
22	·07	-	·37	·06	·22	-	-	·27	-	·50	·14	·05	22
23	-	-	·27	·22	·06	-	·08	-	-	·06	1·18	·07	23
24	-	·02	-	·08	·47	-	·24	-	-	·10	·15	·08	24
25	·07	-	-	-	-	-	·29	-	·18	-	·18	·04	25
26	-	·03	-	·15	·15	-	·04	-	·10	1·26	·20	-	26
27	-	-	-	·07	·21	-	·69	-	·14	·40	·15	-	27
28	-	-	·37	·33	·32	·32	·33	-	-	·10	·26	·11	28
29	-	-	·07	·15	-	-	·39	-	-	-	-	·03	29
30	·09	✕	·76	·40	·02	·13	·30	·52	·12	1·04	·40	·21	30
31	-	✕	·20	✕	-	✕	·07	·03	✕	·51	✕	·10	31
TOTAL	5·66	0·12	3·06	4·35	4·86	0·59	5·36	1·71	5·50	9·08	3·29	2·98	YEAR'S TOTAL 46·56
*Days with ·01 in. or more.	18	5	10	23	18	4	22	11	18	25.	15	19	188
*Days with .04 in. or more.	16	0	9	21	17	3	21	8	18	24.	14	18	169

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*See Instruction 2 (*f*) on other side.

(*Signed*) Vincent W Laithwaite.

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2855

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Bradshaw Sewage Works

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 328·80 ft.

WD g.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following: 0·00

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	·10	·42	–	·09	·10	–	–	·14	·33	–	·45	–		1
2	·04	·37	·07	–	·05	–	–	·04	·08	–	·52	–		2
3	·50	–	·20	·36	–	·14	–	·10	–	–	–	–		3
4	–	·69	·33	–	·32	–	–	–	–	–	–	–		4
5	·31	·09	·23	–	·18	–	–	–	–	–	·02	–		5
6	·18	·17	·07	–	·07	–	–	–	–	–	·05	–		6
7	–	·15	·02	–	·10	–	–	–	–	–	–	·02		7
8	·10	·43	·11	–	·02	–	·29	·07	–	·58	–	–		8
9	·40	·10	·19	·13	·04	·48	·35	–	–	–	–	·05		9
10	–	·41	–	·23	·13	–	·73	·05	–	·58	·17	–		10
11	·20	–	–	–	–	·03	·05	–	–	1·10	·24	–		11
12	–	–	–	–	–	–	·30	–	–	·36	–	–		12
13	·03					·11	·30	–	–	·12	–	·14		13
14	–	–	·02	–	·19	–	·24	·04	·04	·21	·21	–		14
15	·22	–	·03	–	–	–	·09	·07	–	·04	·64	–		15
16	·14	–	·07	–	–	·02	·02	·16	–	·26	·37	–		16
17	·12	·03	·25	·13	·04	·33	–	–	–	·17	·07	–		17
18	·04	–	·71	·09	–	1·24	·02	·35	·11	–	·01	–		18
19	·05	–	·24	–	·17	·25	–	·05	–	–	–	–		19
20	–	–	·32	–	–	·10	·28	·02	·20	–	·13	–		20
21	–	·22	–	–	·17	·15	–	·39	–	–	–	–		21
22	–	–	–	–	–	–	–	·55	–	–	–	–		22
23	–	–	–	–	–	–	–	·07	–	·09	–	–		23
24	–	–	–	·44	–	·04	–	–	·08	·10	–	–		24
25	–	·10	–	·19	·16	·06	–	–	·45	–	–	–		25
26	–	·64	–	·06	–	–	–	–	·06	–	–	·11		26
27	–	·68	–	·30	–	–	–	–	–	·49	–	–		27
28	–	·06	–	·03	·30	–	–	–	–	–	–	–		28
29	–	X	–	·03	–	–	·06	·07	–	·08	–	–		29
30	–	X	–	–	·16	–	·09	–	–	·02	–	·12		30
31	·05 ·42	X	·04 ·09	X ·10	–	X	·16 ·14	– ·33	X	·32 ·45	X	·20		31
TOTAL	2·80 ~~2·48~~	4·14 ~~4·56~~	9 2·98	2·09 ~~2·08~~	1 2·10	2·95	3·12 ~~2·98~~	2·36 ~~2·77~~	1·02 ~~1·35~~	4·97 ~~4·52~~	2·43 ~~2·88~~	0·64	Year's Total 6 31·~~8~~	
*Days with ·01 in. or more.	15	~~13~~ 14	~~16~~ 17	12	~~16~~ 15	12	~~14~~ 15	15	~~8~~ 7	~~15~~ 16	~~12~~ 11	6	15~~8~~6	
*Days with ·04 in. or more.	14	~~12~~ 13	~~13~~ 14	10	~~13~~ 14	10	~~12~~ 13	14	~~8~~ 7	~~14~~ 15	~~10~~ 9	5	13~~9~~8	

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*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) Vincent W Laithwaite

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COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2855

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Bradshaw Sewage Works

in the County of Lancaster

W.D.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 328·80 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following 0·21.

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	–	–	–	–	–	–	–	·12	·05	·24	·11	–		1
2	·21	–	·02	–	–	–	–	–	·06	·03	·16	·52		2
3	·02	·03	·17	–	–	–	–	·79	·05	–	·31	·60		3
4	·16	–	–	–	–	–	–	·03	–	·31	·09	·11		4
5	·22	–	·15	·07	·08	–	–	–	·12	·98	–	·91		5
6	–	–	·06	–	·17	–	–	·55	·02	·16	–	·24		6
7	·02	–	·17	·10	·63	·06	–	·25	–	·34	–	·47		7
8	·39	·06	·08	·09	–	·16	–	–	–	·11	·62	·45		8
9	–	–	–	–	·19	·30	–	–	·02	·12	·60	·02		9
10	–	·10	·28	–	–	–	–	·20	–	·03	·15	–		10
11	–	–	·51	·09	–	–	–	·50	–	·57	·02	–		11
12	·05	–	·05	·41	–	–	–	·35	–	·03	–	·21		12
13	–	–	–	·20	–	–	·24	·05	–	·18	–	·10		13
14	·35	–	–	·04	·08	–	·06	–	–	·27	–	–		14
15	·38	–	·19	–	·06	–	–	–	–	·48	·01	·14		15
16	·47	–	·28	–	·90	–	·03	·17	·25	·03	·03	·31		16
17	·56	–	·22	–	·18	–	·02	–	–	·04	·01	–		17
18	·38	–	·26	·10	·15	–	·33	–	·38	·07	–	·29		18
19	·25	–	·12	·37	·69	·13	–	·02	–	–	–	·31		19
20	–	–	·25	–	·08	·34	–	·02	·52	·25	–	·03		20
21	–	–	·06	·12	·37	–	–	·04	·17	·18	·03	–		21
22	·08	–	·04	–	·02	·58	–	·03	·11	·08	–	–		22
23	·11	–	·06	–	–	–	–	·25	·58	·11	·03	·03		23
24	·03	–	·17	·48	–	–	·39	·02	·02	·24	·04	·09		24
25	–	·23	·06	·41	–	·03	–	–	·32	·23	·01	–		25
26	·13	–	–	·15	·04	–	·23	–	·27	·29	–	·55		26
27	·07	–	–	·13	–	·10	·28	–	·27	·03	·03	·04		27
28	–	–	–	·03	–	·32	·35	–	·02	·32	·03	·32		28
29	–	×	–	·03	–	·35	·12	·71	·05	·54	–	·79		29
30	–	×	–	–	–	–	·13	·61	·29	·28	–	·15		30
31	·07	×	–	×	–	×	·12 ·04	·05 ·04	× ·24	·11 ·39	×	·95		31
TOTAL	3·95	0·42	3·20	2·82	3·64	2·37	2·34 ~~2·22~~	4·68 ~~4·75~~	3·76 ~~3·87~~	6·80 ~~6·93~~	2·17 ~~2·28~~	6·94 ~~6·78~~	Year's Total. ~~42·88~~	43·09
* Days with .01 in. or more.	19	4	20	16	14	10	~~12~~ 13	19	19	29	~~17~~ 16	~~23~~ 24	20~~2~~3	
* Days with .04 in. or more.	16	3	19	14	13	9	~~10~~ 11	14	15	24	~~8~~ 7	~~20~~ 21	16~~5~~6	

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† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(Signed) Reginald Dart.
Surveyor to the Turton U.D.C.

[P.T.O.

2855

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. ~~2855~~

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Bradshaw Sewage Works

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 328·80 ft.

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THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	1·01	·59	-	·05	-	·06	·15	-	·35	·69	·14	·42		1
2	·02	·25	·01	-	-	·29	Trace	-	·03	·13	·02	·10		2
3	·12	1·02	·12	·15	-	·04	·42	-	·30	·11	·10	·32		3
4	-	·03	·05	Trace	-	·36	Trace	-	·46	·18	-	·03		4
5	-	·53	·09	·27	-	·35	·03	-	·15	Trace	·14	·31		5
6	-	-	-	·07	-	·27	-	-	-	-	-	·01		6
7	·01	-	-	·16	-	·20	-	-	-	·37	·26	·34		7
8	-	-	-	·13	-	·01	-	-	-	·34	·17	·49		8
9	·02	-	-	·30	-	·04	-	-	-	1·79	·18	·01		9
10	-	·13	-	·12	-	-	Trace	-	-	·74	·19	Trace		10
11	·46	·07	-	-	-	·34	-	·01	-	·40	·05	-		11
12	·07	·20	-	-	-	·52	-	-	·07	·01	Trace	-		12
13	·19	·09	-	·10	·30	-	-	-	·17	·08	·01	-		13
14	Trace	-	-	·14	Trace	·09	-	-	·05	Trace	1·00	·27		14
15	-	1·56	-	·43	·06	·01	Trace	-	·38	·10	·05	·34		15
16	-	·37	·11	·41	·14	·21	·07	-	·96	-	·21	-		16
17	-	-	-	·35	·62	·27	·45	·05	·18	·08	·40	-		17
18	-	·04	-	·06	·07	·01	·14	-	·49	·12	·10	-		18
19	-	·05	-	·26	·05	·41	·22	-	-	·19	·27	-		19
20	-	·46	-	·45	Trace	·21	·04	-	Trace	·01	·01	-		20
21	-	·12	·03	-	-	-	Trace	-	1·13	·19	Trace	-		21
22	Trace	·16	·05	·15	-	-	-	-	·01	Trace	-	-		22
23	·04	·02	·99	·03	-	-	-	·32	·05	·45	-	-		23
24	·76	·39	·08	Trace	-	-	-	-	1·18	·12	-	·10		24
25	·20	Trace	·18	-	-	·98	-	-	Trace	Trace	·09	·18		25
26	-	-	Trace	-	-	-	·06	1·15	·57	·37	·10	·27		26
27	-	·08	-	-	·18	·08	·38	-	·22	1·75	·35	·03		27
28	·04	·14	-	-	·04	-	-	·07	·12	·80	·07	Trace		28
29	-	x	·04	-	-	-	-	·15	·40	·41	·13	·13		29
30	·13	✕	-	-	-	·27	-	·26	·46	·55	·80	·13		30
31	·12	✕	·02	✕	-	✕	-	-	✕	·15	✕	·49		31
TOTAL	3·19	6·30	1·77	3·63	1·46	5·02	1.96	2·01	7·73	10·13	4.84	3.97	Year's Total 52·01	
* Days with .01 in. or more.	14	20	12	18	8	21	10	7	21	25	23	18	197	
* Days with .04 in. or more.	11	18	9	17	8	18	9	6	20	23	20	14	173	

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* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) Reginald Dart

[P.T.O.

2856

Section **A** for the entry of
AIR MINISTRY

OPY FOR OFFICIAL USE.
ORGANIZATION.

FORM 1090. **REGIS**

Kept at Sewage
in the County of La

Diameter of Funnel of Gauge
Height of top of Gauge above Groun
,, Ground ,, Sea L

THE MORNING MEASU

An observer who does not conform to
year in the space on the right of th

owing

Jan. 1, following

2856

NEWHEY SEWAGE WORKS
1931 — 40

780502

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.	in.						in.	in.	in.	
1	·12	—	—	·20	—	·10	—	—	·04	·11	—	—	1
2	—	·10	—	·70	·06	1·21	—	—	1·04	·03	·10	·15	2
3	—	—	—	·07	—	—	·43	—	·39	—	1·63	·38	3
4	—	—	—	·33	—	—	·10	—	1·31	·06	·04	·16	4
5	—	·15	—	—	·23	·20	·02	·33	·08	—	—	·36	5
6	—	·28	—	—	—	·22	·65	·10	·17	·65	·28	—	6
7	—	—	—	—	—	·68	—	·36	—	·28	·07	·16	7
8	—	·28	—	·25	—	—	·22	·34	·07	·08	·29	—	8
9	—	·90	—	·13	·02	·08	—	·55	·03	—	·32	·03	9
10	·22	·21	—	—	·30	·31	—	·05	·13	—	·38	—	10
11	·55	·77	—	—	—	·05	·10	—	·45	—	·76	—	11
12	·05	—	—	·06	—	—	·59	—	·06	·26	·10	—	12
13	—	—	·20	—	·08	—	·18	·10	—	—	·45	—	13
14	·13	·33	—	—	·08	·88	—	·68	—	—	—	—	14
15	·40	·39	—	·12	·17	·02	·07	·52	—	—	—	—	15
16	·60	·21	—	·41	·40	·46	·08	·75	·35	—	—	—	16
17	·02	·07	—	·19	—	·07	·36	·42	·04	—	·08	—	17
18	·35	—	—	·18	—	·53	·56	·10	—	—	·87	—	18
19	·19	·24	—	·06	—	—	·03	1·06	—	·02	—	—	19
20	—	·14	·08	—	—	·06	—	·19	—	—	·12	·10	20
21	·55	—	·03	—	·10	·12	·02	·38	—	—	—	—	21
22	·16	·13	—	·02	·13	·14	·09	—	—	—	—	—	22
23	·42	—	—	·19	·23	·22	·41	—	—	—	·84	·26	23
24	·05	·45	—	·03	·53	—	·12	—	—	—	·03	·06	24
25	·08	1·17	—	·27	·06	—	·03	—	—	—	·06	·13	25
26	—	·06	—	·17	—	—	—	—	—	—	·56	·02	26
27	·57	·12	—	—	·09	—	·42	—	—	·30	·95	·08	27
28	·47	·16	—	·05	·07	—	·15	—	·10	—	—	—	28
29	·19	×	—	—	·15	—	·17	—	—	·85	·05	·10	29
30	—	×	—	·06	—	—	—	—	·09	—	—	—	30
31	·36	×	—	×	—	×	·07	—	×	—	×	·11	31 d.
TOTAL	5·47	6·19	·31	3·49	2·70	5·35	4·87	5·93	4·35	2·64	7·98	2·10	YEAR'S TOTAL 57·38
*Days with ·01 in. or more.	~~19~~	~~19~~	~~3~~	~~19~~	~~16~~	~~17~~	~~22~~	~~15~~	~~15~~	~~10~~	~~20~~	~~14~~	~~189~~
*Days with ·04 in. or more.	18	19	2	17	15	16	18	15	14	8	19	12	173

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(Signed) Jas B Ogden [P.T.O.

*See Instruction 2 (*f*) on other side.

2856

Section **A** for the entry of [redacted]PY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Sewage works Newhey
in the County of Lancs
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 574·4 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·12	—	—	·20	—	·10	—	—	·04	·11	—	—	1
2	—	·10	—	·70	·06	1·21	—	—	1·04	·03	·10	·15	2
3	—	—	—	·07	—	—	·43	—	·39	—	1·63	·38	3
4	—	—	—	·33	—	—	·10	—	1·31	·06	·04	·16	4
5	—	·15	—	—	·23	·20	·02	·33	·08	—	—	·36	5
6	—	·28	—	—	—	·22	·65	·10	·17	·65	·28	—	6
7	—	—	—	—	—	·68	—	·36	—	·28	·07	·16	7
8	—	·28	—	·25	—	—	·22	·34	·07	·08	·29	—	8
9	—	·90	—	·13	·02	·08	—	·55	·03	—	·32	·03	9
10	·22	·21	—	—	·30	·31	—	·05	·13	—	·38	—	10
11	·55	·77	—	—	—	·05	·10	—	·45	—	·76	—	11
12	·05	—	—	·06	—	—	·59	—	·06	·26	·10	—	12
13	—	—	·20	—	·08	—	·18	·10	—	—	·45	—	13
14	·13	·33	—	—	·08	·88	—	·68	—	—	—	—	14
15	·40	·39	—	·12	·17	·02	·07	·52	—	—	—	—	15
16	·60	·21	—	·41	·40	·46	·08	·75	·35	—	—	—	16
17	·02	·07	—	·19	—	·07	·36	·42	·04	—	·08	—	17
18	·35	—	—	·18	—	·53	·56	·10	—	—	·87	—	18
19	·19	·27	—	·06	—	—	·03	1·06	—	·02	—	—	19
20	—	·14	·08	—	—	·06	—	·19	—	—	·12	·10	20
21	·55	—	·03	—	·10	·12	·02	·38	—	—	—	—	21
22	·16	·13	—	·02	·13	·14	·09	—	—	—	—	—	22
23	·42	—	—	·19	·23	·22	·41	—	—	—	·84	·26	23
24	·05	·45	—	·03	·53	—	·12	—	—	—	·03	·06	24
25	·08	1·17	—	·27	·06	—	·03	—	—	—	·06	·13	25
26	—	·06	—	·17	—	—	—	—	—	—	·56	·02	26
27	·57	·12	—	—	·09	—	·42	—	—	·30	·95	·08	27
28	·47	·16	—	·05	·07	—	·15	—	·10	—	—	—	28
29	·19	×	—	—	·15	—	·17	—	—	·85	·05	·10	29
30	—	×	—	·06	—	—	—	—	·09	—	—	—	30
31	·36	×	—	×	—	×	·07	—	×	—	×	·11	31 d.
													YEAR'S TOTAL
TOTAL	5·44	6·19	·31	3·49	2·70	5·35	4·87	5·93	4·35	2·64	7·98	2·10	57·38
*Days with ·01 in. or more.	19	19	3	19	16	17	22	15	15	10	20	14	189
*Days with ·04 in. or more.	18	19	2	17	15	16	18	15	14	8	19	12	173

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(Signed) Jas B Ogden

[P.T.O.

*See Instruction 2 (*f*) on other side.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2856

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Sewage Works Newhey

in the County of Lancs

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 514·4 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

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Jan. 1, following

Please read the Notes and Instructions Overleaf.

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·47	—	—	·44	·33	—	·21	·04	·84	·25	·12	·09	1
2	1·03	·03	—	—	·17	—	—	·03	1·10	·12	·19	·41	2
3	·04	—	—	—	—	—	·34	—	·09	—	·03	·12	3
4	—	—	—	·02	—	—	·10	—	·05	·05	·18	·03	4
5	1·24	—	—	·32	·06	—	—	—	·22	—	—	—	5
6	1·16	—	·15	·42	—	—	—	—	·16	—	—	·01	6
7	·21	—	·71	·17	—	—	—	—	·80	·45	·02	—	7
8	—	—	—	·16	—	—	—	—	·08	·54	—	·02	8
9	·11	—	—	·58	·04	—	—	—	·06	—	—	·06	9
10	·53	·13	—	·10	—	—	—	—	·42	·45	—	·06	10
11	·02	—	—	·06	·54	·12	1·30	—	·02	—	·03	—	11
12	·35	—	—	—	·52	·03	·03	·02	·03	·58	—	—	12
13	—	·07	·03	·09	·09	—	·17	·03	·42	·40	·02	·23	13
14	·05	—	—	·05	—	—	·08	·07	·02	·08	·10	·07	14
15	—	—	—	·02	·63	—	—	—	—	·17	·11	·06	15
16	·24	—	—	·11	—	—	—	·02	—	·16	—	·15	16
17	—	—	—	—	—	—	·08	·06	·02	·48	—	—	17
18	—	—	—	—	·08	—	—	—	—	—	·03	—	18
19	—	—	—	·20	·45	—	·02	—	—	·39	—	—	19
20	—	—	—	·21	·36	—	·08	·31	—	·20	·07	—	20
21	·04	—	·29	·03	·35	—	—	·35	—	·53	·10	·03	21
22	·02	—	·14	·17	·28	—	·16	—	—	·06	1·06	·11	22
23	—	·04	—	·04	·41	—	·15	—	—	·08	·03	·07	23
24	·05	—	—	·05	—	·04	·35	—	·28	·01	·12	—	24
25	—	·04	—	·15	·15	·01	·07	—	·08	·97	·28	—	25
26	—	—	—	·11	·39	—	·43	—	·05	·35	·24	—	26
27	—	—	·32	·21	·27	·14	·53	—	—	·08	·08	·16	27
28	—	—	·16	·05	·16	—	·17	—	—	—	—	·09	28
29	·08	—	·50	·16	·04	·12	·15	·34	·12	·93	·19	·31	29
30	—	×	·20	·02	—	·46	·05	·06	·19	·09	·33	·11	30
31	—	×	·14	×	—	×	·25	·02	×	·03	×	·09	31
TOTAL	5·64	·31	2·64	3·94	5·35	·92	4·72	1·35	5·35	7·48	3·33	2·28	YEAR'S TOTAL 43·31
*Days with ·01 in. or more.	16	5	10	25	19	7	20	12	20	24	20	20	198
*Days with .04 in. or more.	14	4	9	21	19	5	18	7	16	22	14	16	165

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*See Instruction 2 (*f*) on other side.

(*Signed*) Jas B Ogden

P.T.O.

COPY FOR OFFICIAL USE.

Section A **for the entry of Daily Observations.** **Station No.** 2856

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at SEWAGE WORKS NEWHEY
in the County of LANCˢ
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 513·4 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·08	·65	—	—	—	—	—	·04	·05	—	·29	—		1
2	·47	—	·23	·29	—	·41	—	·03	—	—	·01	—		2
3	—	·54	·40	—	·50	—	—	—	—	—	—	—		3
4	·25	·17	·21	—	·21	—	—	—	—	—	—	—		4
5	·24	·24	·07	—	·12	—	—	—	—	—	·09	—		5
6	·03	·16	·15	—	·21	—	—	—	—	—	—	·06		6
7	·10	·31	·04	—	·08	—	·06	·04	—	·53	—	—		7
8	·35	·15	·15	·13	·12	·05	·29	·08	—	—	—	·12		8
9	—	·32	—	·16	—	—	·99	—	—	·88	·17	—		9
10	·15	—	—	—	·04	·04	·05	—	—	1·22	·11	—		10
11	—	·03	—	—	—	—	·82	—	—	·25	—	—		11
12	·03	—	—	—	—	·18	·33	—	—	·08	—	·06		12
13	—	—	·03	—	·19	—	·48	—	·02	·30	·22	—		13
14	·31	—	·04	—	·17	—	·10	—	—	—	·41	—		14
15	·40	—	—	—	—	—	—	·10	—	·27	·64	·01		15
16	·05	—	·24	—	·03	·34	·01	—	—	·21	·07	—		16
17	·08	—	1·18	·06	—	·62	—	·46	·08	—	·21	—		17
18	·06	·09	·27	—	·04	·41	—	—	—	—	·05	—		18
19	—	—	·55	—	—	·06	—	·05	·21	—	·10	·03		19
20	—	·17	—	·03	—	·05	—	·22	·05	—	—	—		20
21	—	—	—	—	—	·04	—	·28	·22	—	—	—		21
22	—	—	—	—	·05	·23	—	·09	—	·09	—	—		22
23	—	—	—	·37	—	—	—	·02	·07	·03	—	—		23
24	—	—	—	·21	·13	·35	—	—	1·11	—	·02	—		24
25	—	·17	—	·25	—	—	—	—	·10	—	—	·06		25
26	—	·75	—	·71	—	—	—	—	—	·33	—	—		26
27	—	—	—	—	—	—	—	—	—	—	—	—		27
28	—	—	—	·10	—	—	·11	—	—	·15	—	—		28
29	—	×	—	·03	—	—	·07	—	—	·05	—	·07		29
30	·05	×	·05	—	·21	—	·33	—	—	·30	—	·24		30
31	·40	×	·08	×	—	×	·25	·17	×	·16	×	—		31
TOTAL	3·05	3·75	3·69	2·34	2·10	2·78	3·89	1·58	1·91	4·85	2·39	·65	Year's Total 32·98	
*Days with ·01 in. or more.	16	13	15	11	14	12	13	12	9	15	13	8	151	
*Days with ·04 in. or more.	14	12	14	9	13	12	12	10	8	14	11	6	135	

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*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) Jas B Ogden

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2856

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Sewage Works Newhey
in the County of Lancs
Diameter of Funnel of Gauge 5" in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 574·4 ft.

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·14	—	·02	—	—	—	—	·07	·13	—	·06	·55		1
2	·01	·02	·13	—	—	—	—	·50	·07	—	·20	·59		2
3	·09	—	—	—	—	—	—	·04	·03	·11	·06	·11		3
4	·19	—	·16	·06	·10	—	—	—	·05	·75	—	·85		4
5	—	—	·05	—	·05	—	—	·34	—	·18	·05	·14		5
6	—	—	·08	·10	·50	·07	—	·03	—	·23	—	·35		6
7	·34	·06	·14	·05	—	·05	—	—	—	·19	·40	·36		7
8	—	—	·05	—	·07	·24	—	·06	·02	·19	·66	·05		8
9	—	·06	·13	·05	—	—	—	·12	—	—	·54	·02		9
10	—	—	·34	·17	—	—	—	·09	—	·40	·08	—		10
11	·13	—	·02	·53	—	—	—	·32	—	—	·03	·17		11
12	—	—	·05	·16	—	—	·15	—	—	·06	—	·03		12
13	·38	·02	—	·04	·07	—	·14	·02	—	·24	·03	·01		13
14	·32	—	·14	—	·03	·01	—	—	—	·36	·11	·13		14
15	·47	—	·46	—	·76	—	—	·09	·57	—	·04	·31		15
16	·62	—	·14	—	·09	—	—	—	—	—	·06	—		16
17	·45	—	·30	—	·19	—	·19	—	·30	·05	—	·29		17
18	·35	—	·21	·16	·53	·37	—	·03	—	—	—	·20		18
19	—	·02	·33	—	·12	·23	—	—	·62	·19	—	·17		19
20	—	—	·02	·14	·40	·20	—	·06	·09	·19	—	—		20
21	·06	—	·04	—	·02	·40	—	·06	·12	·11	—	—		21
22	·05	—	—	—	—	—	—	·14	·55	·10	·02	—		22
23	—	—	·16	·57	—	—	·67	·10	·03	·20	·04	·06		23
24	—	·20	—	·16	—	·11	—	—	·29	·10	—	—		24
25	·07	·13	·03	·09	·01	—	·32	—	·26	·34	—	·44		25
26	·15	—	·05	·20	—	·21	·29	—	·43	·07	·05	·13		26
27	—	—	—	·17	—	·42	·50	—	·10	·49	·02	·25		27
28	—	—	—	·04	—	·10	·08	·33	·02	·14	—	·75		28
29	—	×	·01	—	—	—	·10	·36	·44	·11	—	·11		29
30	·09	×	—	—	—	—	·10	·42	·25	·22	—	·10		30
31	·02	×	—	×	—	×	·49	—	×	·05	×	·23		31
													Year's Total.	
TOTAL	3·93	·51	3·06	2·63	2·94	2·41	3·03	3·18	4·37	5·07	2·45	6·40	39·98	
* Days with .01 in. or more.	18	7	23	16	14	12	11	19	19	24	17	25	205	
* Days with .04 in. or more.	16	4	18	16	11	11	11	16	15	24	13	22	147	

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* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) Jas B Ogden

P.T.O.

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REGISTER OF RAINFALL IN 1935.

Kept at Sewage Works Newhey

in the County of Lanᶜˢ

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·43	·30	·02	·27	—	—	·03	—	·07	·71	·11	·29		1
2	—	·14	—	—	—	·26	·03	—	·12	·22	·07	·34		2
3	·07	·58	·10	·08	—	·05	·52	—	·50	·03	·12	·14		3
4	—	—	·08	—	—	·24	·05	—	·46	·24	—	·03		4
5	—	·53	·14	·31	—	·49	·02	—	·24	·07	·27	·31		5
6	—	·05	—	·07	—	·53	—	—	—	—	—	·09		6
7	·04	—	—	·10	—	·24	—	—	—	·31	·12	·35		7
8	—	—	—	·14	—	—	—	—	—	·35	·11	·34		8
9	—	—	·09	·37	—	·15	—	—	—	1·97	·09	—		9
10	—	·07	—	·29	—	—	—	—	—	·47	·18	—		10
11	·45	·14	—	—	—	·24	—	—	—	·32	·11	·03		11
12	—	·15	—	—	—	·77	—	—	·07	—	—	—		12
13	·15	·06	—	·09	·23	—	—	—	·13	·15	·02	—		13
14	—	—	—	·30	·07	·10	·10	—	·25	·02	1·38	·24		14
15	—	1·37	—	·34	·06	—	—	—	·33	·20	·08	·28		15
16	—	·29	·11	·34	·10	·20	·20	—	·80	—	·30	—		16
17	—	·06	—	·42	·52	·18	·33	·03	·14	—	·45	—		17
18	—	—	—	·11	·07	·05	·07	—	·51	·44	·09	—		18
19	·09	·09	—	·23	—	·36	·35	—	—	·13	·22	—		19
20	·01	·80	—	·32	—	·21	·07	—	—	—	·29	—		20
21	—	·22	—	·04	—	·08	—	—	·94	·22	·15	·16		21
22	—	·16	·09	—	—	·05	—	—	·04	—	—	—		22
23	·03	—	·98	·90	—	—	—	·49	—	·28	—	—		23
24	·44	·54	·03	—	—	—	—	—	1·44	·03	—	·09		24
25	·15	—	·28	—	—	·24	—	—	—	—	·11	·03		25
26	—	—	—	—	—	—	·05	1·23	·47	·48	·14	·28		26
27	—	·10	—	—	—	—	·34	—	·52	·99	·53	·08		27
28	·03	·06	—	—	·07	·06	—	·02	·08	·50	·05	—		28
29	—	×	·06	—	—	—	·02	·09	·45	·58	·20	·21		29
30	·09	×	—	—	—	·15	—	·10	·40	·66	·73	·10		30
31	·07	×	—	×	—	×	—	—	×	·32	×	·31		31
TOTAL	2·05	5·71	1·98	4·72	1·12	4·65	2·18	1·96	7·96	9·66	5·92	3·40	Year's Total. 51·61	
* Days with ·01 in. or more.	13	19	11	18	7	20	14	6	20	24	24	19	195	
* Days with ·04 in. or more.	10	19	9	18	7	20	10	4	20	21	23	16	177	

40-9999

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) Jas B Ogden

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2856

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1936

Kept at SEWAGE WORKS

in the County of LANCS

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 512·80 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

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Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	—	·14	·04	·20	—	—	—	·44	·09	—	·20	·35		1
2	—	·08	·01	·01	—	·57	·03	·07	·05	—	·04	·07		2
3	·01	—	—	—	—	·25	·05	·11	·62	—	—	·24		3
4	·33	·13	·24	—	—	·03	·01	·08	·75	—	·29	·33		4
5	·03	·06	·71	—	·02	—	—	·35	·44	—	·10	·36		5
6	·09	—	·05	—	—	—	·08	·41	·70	—	·15	—		6
7	—	—	·11	—	—	—	·21	—	·84	—	·14	·29		7
8	·32	—	·17	—	—	—	—	—	·01	—	·70	·08		8
9	·25	—	·02	—	—	—	—	—	·11	—	1·25	—		9
10	·08	—	—	—	—	—	·73	—	—	—	·93	—		10
11	—	—	—	—	—	·15	·42	·06	·04	—	·43	·03		11
12	—	—	—	·19	·07	·68	·48	—	·52	·09	·16	·03		12
13	·02	—	—	·10	·01	·01	·10	—	—	·29	·01	·50		13
14	—	—	—	·07	—	·31	·09	·10	·61	·12	·31	·81		14
15	·15	—	—	·09	·01	·13	·10	·08	·12	—	·55	·12		15
16	—	·07	·01	·02	—	—	·08	—	—	·01	·82	·02		16
17	·12	·32	·02	—	·01	—	·23	·11	—	·60	·04	·21		17
18	—	·03	—	—	—	·15	·27	·10	—	·87	—	—		18
19	·28	·24	·03	·05	—	·06	·13	·31	—	·10	—	—		19
20	·30	·07	—	·01	—	—	—	—	—	·03	—	—		20
21	·13	—	·04	·07	—	·03	—	—	—	·07	—	—		21
22	·18	·44	·05	—	·02	2·87	·28	—	—	—	—	·08		22
23	[illegible]	·02	·34	·26	·06	—	·47	·03	—	·08	—	—		23
24	·06	·05	—	·06	·19	—	·01	·02	·19	·83	—	·05		24
25	·18	—	·01	·05	—	·03	·15	—	·23	·36	—	·02		25
26	·04	·21	·11	·01	—	—	—	—	·36	·78	—	—		26
27	·91	—	—	—	—	—	—	—	·05	·41	—	—		27
28	·18	·52	·14	—	—	—	·10	—	—	—	·02	·11		28
29	·10	·30	·86	—	·15	·55	—	—	—	·10	·17	·10		29
30	·34	✕	—	—	·43	—	·36	—	—	·67	·09	·04		30
31	·04	✕	·05	✕	·02	✕	·01	·03	✕	—	✕	·41		31
													Year's Total	
TOTAL	4·15	2·68	3·01	1·19	·99	5·82	4·39	2·30	5·43	5·41	6·40	4·25	46·32	✓
* Days with .01 in. or more.	22	15	19	14	11	14	22	15	17	16	19	21	205	✓
* Days with .04 in. or more.	19	13	13	10	5	10	18	12	16	14	17	17	164	✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) Jas B Ogden

[P.T.O.

Section A for the entry of Daily Observations.

STATION Nº 2856

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

Kept at SEWAGE WORKS NEWHEY

in the County of LANcs

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 572·80 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

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Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·06	·20	·08	—	—	—	·02	—	·35	—	—	·25	1
2	·27	·34	·20	·15	—	—	—	—	—	·02	—	·03	2
3	—	·12	·09	·10	·06	·64	·10	—	—	—	—	·04	3
4	·23	·03	·10	·06	·11	—	·02	·04	—	—	—	·67	4
5	1·37	—	·05	—	—	—	—	—	·01	—	—	·04	5
6	·07	—	·01	·09	·09	—	—	·82	·03	—	—	·09	6
7	·04	·31	—	·53	·06	·05	—	—	·07	—	—	—	7
8	—	·46	—	·04	—	·17	·25	—	—	—	·02	·05	8
9	·02	·23	—	·03	·15	·02	·31	·35	—	—	—	—	9
10	·02	·19	—	—	—	·01	—	·03	—	·01	—	·34	10
11	—	—	·29	—	—	—	·02	—	—	—	—	—	11
12	·10	·41	·03	·02	·13	·09	·07	·63	·25	—	—	·23	12
13	—	·13	—	—	—	·42	—	·19	—	—	—	·22	13
14	—	·10	·12	—	—	—	—	·07	·13	—	—	·13	14
15	·43	·41	—	·35	—	—	·57	—	·11	—	—	·04	15
16	·05	·58	·13	·20	·26	—	—	·15	·19	—	—	—	16
17	·05	·07	·35	·05	—	·02	—	·03	·08	—	—	—	17
18	·31	·27	·22	·10	—	—	·04	·27	·10	—	·43	—	18
19	·10	·26	—	·23	·01	·11	·07	·03	—	—	·52	·02	19
20	·08	·24	—	·11	·47	·02	·15	—	—	—	—	·20	20
21	·02	·05	·02	·11	—	—	·38	—	—	·07	—	·17	21
22	·02	—	·12	·02	·03	—	·18	—	—	·38	·21	·18	22
23	·09	—	—	—	·26	—	·11	—	—	·53	·16	—	23
24	·10	·26	·14	—	·05	—	·08	—	·16	·13	—	·06	24
25	—	·34	—	—	—	—	—	·05	—	·04	—	·02	25
26	—	·34	·08	—	·61	—	—	—	—	—	—	·10	26
27	—	·08	—	·12	—	—	—	—	—	·34	—	·02	27
28	—	·68	—	—	—	·07	—	—	—	·10	—	—	28
29	—	—	—	—	—	—	—	—	—	·02	·15	·02	29
30	·08	×	—	—	—	·29	—	·17	—	·10	·49	·02	30
31	·22	×	—	×	—	×	—	·11	×	·14	×	—	31
TOTAL	3·43	6·10	2·03	2·31	2·29	1·91	2·31	2·94	1·48	1·90	2·28	2·94	YEAR'S TOTAL 32·22
*Days with ·01 in. or more.	21	23	16	17	13	12	15	14	11	12	7	22	183
*Days with ·04 in. or more.	17	22	13	14	11	8	12	11	9	9	6	16	148

40-9999

(Signed) Jas Blogden [P.T.O.

*See Instruction 2 (*f*) on other side.

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Section **A** for the entry of Daily Observations

Station No. 2856

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

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Diameter of Funnel of Gauge 8 in.

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„ Ground „ Sea Level 572·80 ft.

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	—	·02	—	·01	—	·84	·15	·05	—	·02	·19	·34		1
2	·04	·07	—	·39	·14	·56	·01	—	—	1·13	·13	·35		2
3	·01	—	—	—	—	·03	·07	—	·22	1·58	·17	—		3
4	·03	—	—	·08	—	·03	·35	1·04	—	·38	·30	1·34		4
5	·03	·03	—	·02	—	·05	·28	—	·04	·73	—	·07		5
6	·25	—	—	—	—	·05	·46	—	·07	·39	—	·01		6
7	·23	—	—	—	—	—	·29	·02	·22	·43	—	—		7
8	·48	·01	—	—	—	—	·25	—	—	1·07	—	·25		8
9	·06	·45	·11	—	—	·35	·12	—	—	·14	—	·30		9
10	—	·07	—	—	—	·11	·60	—	—	·10	—	·05		10
11	·18	·06	—	—	·01	·03	·15	·01	·03	·12	·19	·05		11
12	·25	—	—	—	·18	—	—	·18	—	1·44	—	—		12
13	·01	—	—	—	·01	—	·05	—	·10	·17	·25	·33		13
14	·34	·04	—	—	·14	—	·17	—	·01	·01	·01	—		14
15	·33	—	·01	—	—	—	·43	·40	—	·13	—	·25		15
16	1·17	—	·04	—	·23	—	·03	·30	—	·02	·08	·24		16
17	—	—	—	—	·39	—	·12	·15	·12	·76	·03	—		17
18	·13	·01	—	—	·03	·03	—	·43	—	·53	·29	·02		18
19	—	—	—	—	—	—	—	·38	·07	—	—	·09		19
20	·24	—	—	—	—	—	—	·07	·06	—	·49	·01		20
21	—	—	·05	—	—	—	—	·04	—	—	·05	·02		21
22	—	—	—	—	·07	·27	—	—	—	—	·30	·02		22
23	·01	—	—	—	·14	·50	—	—	·10	—	·52	—		23
24	·39	·09	·23	—	·05	·11	·48	·44	—	·01	·22	—		24
25	·13	·40	·06	—	—	·05	·18	·01	—	·48	·70	—		25
26	·39	·45	·24	—	·06	·35	—	—	·04	·26	·20	·15		26
27	·41	·23	—	—	·84	·47	·16	·26	·03	—	·50	—		27
28	·28	·12	·12	—	·22	·79	·10	·20	·07	·03	·02	—		28
29	·11	X	·21	—	1·37	·15	·16	—	—	·15	·16	·38		29
30	·30	✕	—	—	·05	·14	—	—	·33	—	·20	·11		30
31	·35	✕	·09	✕	·40	✕	—	—	✕	·61	✕	·91		31
TOTAL	6·15	2·05	1·16	·50	4·33	4·91	4·61	3·98	1·51	10·69	5·00	5·29	Year's Total 50·18	✓
* Days with .01 in. or more.	25	14	10	4	17	19	21	16	15	24	21	21	207	✓
* Days with .04 in. or more.	20	10	9	2	14	15	19	13	12	19	18	16	167	✓

† Spare column, no entries required

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(*Signed*) Jas B Ogden

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·22	—	·26	·04	—	—	·18	·10	—	·01	—	·48		1
2	·06	—	—	·09	—	—	·41	·38	·80	·05	·04	·11		2
3	·02	—	—	·10	—	—	—	·15	—	—	·03	·68		3
4	·11	—	·37	·23	·05	—	·91	—	—	·01	—	·90		4
5	—	—	—	—	·46	—	·40	·04	—	·17	·47	·03		5
6	·80	·36	—	—	—	—	·50	—	—	—	·07	—		6
7	·24	·26	·23	—	·19	—	·20	—	—	—	·16	·40		7
8	·45	·17	·18	—	—	—	·75	·07	—	·18	·40	·42		8
9	·09	·63	—	·03	—	—	·04	·71	—	·26	·11	·65		9
10	·20	·01	—	—	—	·12	—	·29	·50	·14	·01	·10		10
11	·43	·05	·20	—	—	·16	—	—	·01	·01	—	—		11
12	·51	·10	—	—	—	·05	—	—	—	—	—	—		12
13	·02	—	—	·40	·16	·15	·07	—	—	·11	·04	—		13
14	·55	—	·01	·02	·42	·44	·25	—	·04	—	·41	—		14
15	·15	·08	·09	·75	·13	·89	·18	—	·01	—	·10	—		15
16	·14	—	·01	·03	·40	—	—	—	—	—	·05	—		16
17	·62	·30	·01	·01	·03	·01	·03	—	—	·18	·08	—		17
18	·07	·22	—	—	—	·23	·18	—	—	—	·71	—		18
19	·26	—	—	—	—	·03	·23	—	—	—	—	—		19
20	·01	—	—	—	—	·22	·11	·10	—	—	—	—		20
21	·10	·08	·59	·16	·12	—	—	·01	·04	—	—	—		21
22	·12	·24	·18	·01	—	—	·07	—	—	·03	·65	—		22
23	—	·77	·03	·31	—	·03	·15	—	—	·47	·17	—		23
24	·02	·14	·07	·03	—	—	·01	—	—	·02	—	—		24
25	·45	·17	·01	—	—	·06	—	—	—	—	1·58	·05		25
26	·05	·04	—	—	—	—	—	1·06	—	·22	·46	·04		26
27	·03	1·67	·34	—	—	·47	·07	·07	—	·15	·33	·05		27
28	·03	·18	·19	·03	—	·17	·73	—	—	—	·80	—		28
29	—	×	—	—	—	·01	1·27	—	—	·25	·38	—		29
30	—	✕	—	—	—	·12	·17	—	—	—	·37	—		30
31	—	✕	—	✕	—	✕	·20	·05	✕	—	✕	—		31
TOTAL	5·75	5·47	2·77	2·24	1·96	3·16	7·11	3·03	1·40	2·26	7·42	3·91	Year's Total 46·48	
* Days with .01 in. or more.	26	18	16	15	9	16	23	12	6	16	22	12	191	
* Days with .04 in. or more.	20	17	11	8	8	12	21	11	4	11	20	11	154	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) Jas Bogden

[P.T.O.

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Kept at SEWAGE WORKS NEWHEY

in the County of LANcs

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 512·80 ft.

Jan estd for snow
Snow circ sent 30-4-41

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	—	—	—	·19	—	—	—	—	—	—	·44	·28		1
2	—	—	—	·17	—	—	·08	—	—	—	·10	·29		2
3	·04	—	—	·20	—	—	·11	—	—	·11	·57	·16		3
4	—	·22	—	·08	—	—	·06	—	—	·21	·22	·28		4
5	—	—	—	—	·16	—	·07	—	—	—	·04	·65		5
6	·05	·30	—	—	—	—	—	—	—	1·33	·03	—		6
7	·12	·20	—	·24	·13	—	·10	·26	·11	·20	—	—		7
8	—	—	·02	·02	—	—	·02	·04	—	·13	—	·48		8
9	—	—	·23	—	—	—	·83	·31	·32	·43	1·46	·24		9
10	—	—	·03	—	—	—	·05	—	—	·19	·36	·64		10
11	—	—	·11	·05	—	·07	·95	·27	—	—	1·66	—		11
12	—	—	·63	—	—	—	·16	—	·62	—	·58	—		12
13	—	—	·10	·03	—	—	—	·08	·45	—	·02	—		13
14	—	·06	·07	·32	·20	—	·17	·09	—	—	·08	—		14
15	—	—	—	·05	·02	—	·09	—	·17	·01	·04	·65		15
16	—	·02	—	·11	—	—	·42	—	1·62	·37	·15	·04		16
17	·20	—	·80	—	—	—	·42	—	·16	—	·66	—		17
18	—	·12	·24	·60	—	—	—	·30	·22	—	·02	·29		18
19	—	·21	·20	·02	·34	—	·31	—	·51	—	·42	·02		19
20	—	—	·09	·24	—	·01	1·53	·50	·23	·23	·05	—		20
21	·04	—	·30	·02	—	·44	·04	·04	·02	—	·68	—		21
22	·10	·08	·09	—	·10	—	—	·04	·51	·03	—	—		22
23	·04	·28	—	·11	—	—	·09	—	·06	—	·17	—		23
24	(·65) ·~~15~~	—	—	·02	·01	—	—	—	—	·02	—	—		24
25	·10	—	·03	—	—	·09	—	—	—	·06	—	·06		25
26	65 ·~~05~~	·12	—	—	·03	·04	—	—	—	—	·03	—		26
27	—	·52	·02	—	—	—	—	—	—	—	·04	—		27
28	·02	·26	·28	—	1·01	—	·40	·16	—	—	—	·04		28
29	—	—	—	—	—	—	·01	—	—	·02	—	·68		29
30	—	✕	—	·11	—	·39	—	—	—	·51	—	·23		30
31	—	✕	·22	✕	—	✕	—	·06	✕	·86	✕	—		31
TOTAL	2·01 ~~·71~~	2·39	3·46	2·58	2·00	1·04	5·91	2·15	5·00	4·71	7·76	5·03	Year's Total ~~42·74~~ 44·04	
* Days with .01 in. or more.	103	12	17	18	9	6	20	12	13	16	22	16	147	
* Days with .04 in. or more.	9 11	11	13	13	6	5	18	12	12	12	18	15	145	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) Jas B Ogden

P.T.O.

2857

Section **A** for the entry of

AIR MINISTR

FOR OFFICIAL USE.

ORGANIZATION.

FORM 1090.

REGIS

2857

BUTTERWORTH HALL
1931 —— 40

780502

Kept at Butterworth

in the County of

Diameter of Funnel of Gauge

Height of top of Gauge above Groun

,, Ground ,, Sea L

THE MORNING MEASU

An observer who does not conform to … *lowing*
year in the space on the right of th

Please read t

Jan. 1, following.

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·13	.	02	18	.	08	.	.	04	10	.	.	1
2	02	11	.	78	04	1·04	.	.	95	07	08	08	2
3	.	.	.	09	.	07	37	.	34	02	2·12	40	3
4	.	03	.	33	.	.	10	.	1·55	06	26	39	4
5	.	10	.	.	24	1·03	02	58	11	.	01	40	5
6	.	34	02	.	.	18	54	01	15	65	28	.	6
7	.	04	04	.	.	78	.	24	.	39	11	16	7
8	03	25	03	08	03	-	36	55	04	06	29	.	8
9	.	91	02	29	.	06	.	38	04	03	31	06	9
10	21	15	01	.	26	26	.	19	07	.	37	.	10
11	53	85	.	05	.	65	.	03	39	.	73	.	11
12	07	24	.	08	.	01	.	.	14	28	23	.	12
13	.	.	16	.	07	02	20	04	.	.	01	.	13
14	18	10	.	02	11	79	01	89	01	.	46	.	14
15	33	46	.	12	18	02	10	63	.	.	01	04	15
16	78	12	.	45	38	44	07	75	29	.	.	.	16
17	09	17	.	17	01	07	42	53	04	.	04	.	17
18	34	01	.	27	.	57	54	13	.	.	91	.	18
19	18	27	.	07	.	.	02	1·07	04	02	.	.	19
20	02	13	03	01	.	06	.	16	.	.	12	02	20
21	52	07	07	.	05	10	03	33	.	.	04	.	21
22	18	12	.	02	13	05	03	.	.	.	02	.	22
23	45	01	.	20	21	32	39	.	.	.	94	32	23
24	09	47	.	04	63	.	10	.	.	.	02	05	24
25	11	1·05	.	20	07	.	16	.	.	.	06	13	25
26	03	14	.	27	.	.	.	.	.	.	56	03	26
27	61	12	.	04	09	.	36	.	.	28	1·13	10	27
28	40	21	.	08	08	.	20	.	10	.	.	09	28
29	24		.	03	18	.	15	.	.	87	04	.	29
30	01	✕	.	07	.	.	01	.	08	.	01	.	30
31	41	✕	.	✕	03	✕	11	.	✕	03	✕	13	31
TOTAL	5·96	6·47	·40	3·94	2·79	6·00	4·29	6·51	4·38	2·86	9·16	2·40	YEAR'S TOTAL 55·16
Days with ·01 in. or more.	24	25	9	24	18	20	22	16	17	13	26	15	229
Days with ·04 in. or more.	19	22	3	20	15	17	16	14	[illegible]	[illegible]	20	13	184

40-9999

(Signed)

[P.T.O.

2857

Section **A** for the entry of

AIR MINISTRY.—~~METEOROLOGICAL OFFICE.—BRITISH RAINFALL~~ ORGANIZATION.

FOR OFFICIAL USE.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Butterworth Hall

in the County of Lanc

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 512 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following.

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·13	.	02	18	.	08	.	.	04	10	.	.	1
2	02	11	.	78	04	1·04	.	.	95	07	08	08	2
3	.	.	.	09	.	07	37	.	34	02	2·12	40	3
4	.	03	.	33	.	.	10	.	1·55	06	26	39	4
5	.	10	.	.	24	1·03	02	58	11	.	01	40	5
6	.	34	02	.	.	18	54	01	15	65	28	.	6
7	.	04	04	.	.	78	.	24	.	39	11	16	7
8	03	25	03	08	03	.	36	55	04	06	29	.	8
9	.	91	02	29	.	06	.	38	04	03	31	06	9
10	21	15	01	.	26	26	.	19	07	.	37	.	10
11	53	85	.	05	.	65	.	03	39	.	73	.	11
12	07	24	.	08	.	01	.	.	14	28	23	.	12
13	.	.	16	.	07	02	20	04	.	.	01	.	13
14	18	10	.	02	11	79	01	89	01	.	46	.	14
15	33	46	.	12	18	02	10	63	.	.	01	04	15
16	78	12	.	45	38	44	07	75	29	.	.	.	16
17	09	17	.	17	01	07	42	53	04	.	04	.	17
18	34	01	.	27	.	57	54	13	.	.	91	.	18
19	18	27	.	07	.	.	02	1·07	04	02	.	.	19
20	02	13	03	01	.	06	.	16	.	.	12	02	20
21	52	07	07	.	05	10	03	33	.	.	04	.	21
22	18	12	.	02	13	05	03	.	.	.	02	.	22
23	45	01	.	20	21	32	39	.	.	.	94	32	23
24	09	47	.	04	63	.	10	.	.	.	02	05	24
25	11	1·05	.	20	07	.	16	.	.	.	06	13	25
26	03	14	.	27	.	.	.	.	.	.	56	03	26
27	61	12	.	04	09	.	36	.	.	28	1·13	10	27
28	40	21	.	08	08	.	20	.	10	.	.	09	28
29	24		.	03	18	.	15	.	.	87	04	.	29
30	01	×	.	07	.	.	01	.	08	.	01	.	30
31	41	×	.	×	03	×	11	.	×	03	×	13	31
TOTAL	5·96	6·47	·40	3·94	2·79	6·00	4·29	6·51	4·38	2·86	9·16	2·40	YEAR'S TOTAL 55·16
Days with ·01 in. or more.	24	25	9	24	18	20	22	16	17	13	26	15	229
Days with ·04 in. or more.	19	22	3	20	15	17	16	14	6	9	20	13	84

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(Signed)

[P.T.O.

2857

Section **A** for the entry of Daily Observations. COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Butterworth Hall

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 512 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·43	01	.	46	23	.	27	03	74		20	04	1
2	1·21	.	.	01	·46	.	01	04	1·37	55	19	45	2
3	08	01	.	.	.	.	28	.		.	.	.	3
4	05	.	.	.	.	.	14	.	17	06	19	18	4
5	1·03	.	15	33	09	.	01	.	28	.	.	01	5
6	1·32	.	24	53	02	.	.	02	14	.	.	.	6
7	25	.	70	19	.	.	.	.	73	26	.	.	7
8	01	.	.	17	.	.	.	.	12		.	.	8
9	13	05	.	64	05	.	.	.	01	73	.	10	9
10	60	02	01	08	.	.	.	.		45	01	.	10
11	02	05	.	07	53		1·29	.	78	01	02	08	11
12	40	01	.	.	53	18	02	.	02	54		.	12
13	01	.	.	10	13	.	20	03	40	52	04	24	13
14	05	02		03		.	09	04	02	12	11	.	14
15	.	.	.	03	63	.	.	·04	.		16	13	15
16	.	.	.	14	.	.	02	.	.	35	.	15	16
17	25	.	.	.	.	.	11	.	.	52	.	.	17
18	.	.	.	.	08	.	.	06	06	.	01	.	18
19	.	01	.	20	35	.	03	.	02	44	.	.	19
20	.	.	.	25	51	.	06		.	20	08	.	20
21	04	02	24	04		.	07	75	.	56	13	03	21
22	01	.	21	18	53	.	12	.	.		1·02	11	22
23	.	02	.	06	44	.	09	.	.	15	13	08	23
24	05	.	.	02	03	03	39	.		01	14	.	24
25	.	04	.	10	16	01	08	.	37	99	20	02	25
26	.	.	.	16	28	.	44	.	04	28	.	01	26
27	.	.	36	21	42	16	21	.	.	07	37	13	27
28	.	.	16	05		.	21	.	.	.	01	14	28
29	07	.	63	16	22	10	31	40	12	.	15	34	29
30	.	X	12	01	.	47	08	08	01	1·12	42	18	30
31	01	X	16	X	.	X	11	.	X	.	X	10	31
TOTAL	6·02	·27	2·98	4·22	5·69	·95	4·64	1·49	5·40	7·93	3·58	2·52	YEAR'S TOTAL 45·69
*Days with ·01 in. or more.	~~20~~	~~11~~	~~11~~	~~26~~	~~19~~	~~6~~	~~24~~	~~10~~	~~18~~	~~20~~	~~22~~	~~19~~	~~205~~
*Days with ·04 in. or more.	~~15~~	~~3~~	~~10~~	~~20~~	~~17~~	~~4~~	~~19~~	~~7~~	~~13~~	~~18~~	~~18~~	~~15~~	~~159~~

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) [illegible]

P.T.O.

Ky. 2857

Section A for the entry of Daily Observations. COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Butterworth Hall

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

„ Ground „ Sea Level 512 ft.

Days

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	09	81	02	.	.	.	.	03	.	.	36	.	1
2	51	.	25	30	01	.	.	06	07	.	01	.	2
3	01	60	39	.	42	43	.	.	.	.	.	.	3
4	26			.	14	.	.	03	.	.	.	.	4
5	28	39	35	.	21	.	.	.	.	.	08	.	5
6	05	07	01	.	.	.	.	.	.	.	.	06	6
7	.	40	20	.	32	.	05	.	.	.	.	.	7
8	41	14	14		08	.	.	03	.	60	.	.	8
9	.	42	.	31	02	.	.	01	.	91	.	.	9
10	17	04	.	.	.		1·22	06	.	1·24	28	.	10
11	.	.	.	07	.	03	14	.	.	48	.	05	11
12	02	.	.	.	.	.	65	.	.	06	.	08	12
13	.	.	04	.	.	26	21	.	05	31	22	.	13
14	.	.	05	.	43	.	54	03	.	.	45	.	14
15		.	04	.	.	.	08	06	.	25	68	01	15
16	72	.	21	.	03	01	.	.	.	23	08	.	16
17	08	.	78	.	.	30	.	33	08	.	21	.	17
18	05	10		28	06	1·11	.	.	.	.	06	.	18
19	03		85	01	.	14	.	.	21	.	11	03	19
20	.	75	01	.	.	04	.	35	03	.	.	.	20
21	.	01	.	.	.	04	.	23	25	.	.	.	21
22	.	.	.		.	04	.	13	10	09	.	.	22
23	.	.	.	37	08	.	.	03	.	03	.	.	23
24	.	10	.	19	10		.	.	77	.	01	01	24
25	.		.	21	.	39	.	.	41	.	.	07	25
26	.	1·35	.	61	.	.	.	.	.	33	.	01	26
27	.	02	.	01	.	.	.	.	.	.	.	.	27
28	.	.	.	11	.	.	.	.	.	.	.	.	28
29	.		.		.	.	09	.	.	28	.	06	29
30	02	×	15	. 04	24	.	46	.	.	29	.	24	30
31	45	×	10	×	.	×	27	14	×	19	×	.	31 d
TOTAL	3·15	4·60	3·59	2·46	2·14	2·79	3·71	1·52	1·97	5·29	2·55	·62	YEAR'S TOTAL 34·39
*Days with ·01 in. or more.	16	17	18	14	14	11	18.	14	9	14	13	10	(168.)
*Days with ·04 in. or more.	12	14	15	8	11	9	10.	8	8	13	11	6	(125)

40-9999

*See Instruction 2 (*f*) on other side.

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(*Signed*)

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2857

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Butterworth Hall

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 512 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	15	.	01	.	.	.	.	07	10	09	05	45		1
2	01	02	13	.	01	.	.	52	09	.	19	66		2
3	10	01	.	.	.	.	.	05	04	11	11	08		3
4	19	05	11	13	05	.	.	.	05	72	.	76		4
5	.	05	08	01	11	.	.	37	.	30	05	22		5
6	.	.	08	08	61	08	.	05	.	27	.	38		6
7	41	01	19	06	.	03	.	.	.	14	30	40		7
8	.	.	02	.	08	28	.	09	02	15	76	07		8
9	.	.	09	07	.	.	.	12	.	03	58	02		9
10	.	01	40	20	.	.	.	19	.	39	13	.		10
11	13	01	05	45	.	.	.	12	.	02	03	16		11
12	04	.	06	31	.	.	14	16	.	08	.	05		12
13	36	.	.	05	.	.	23	02	.	24	01	.		13
14	30	.	14	.	09	01	.	.	.	46	13	15		14
15	53	01	48	.	08	.	.	08	60	01	03	34		15
16	53	.	16	.	80	.	.	.	.	.	08	04		16
17	40	.	32	01	12	.	18	.	39	04	.	25		17
18	40	.	22	15	15	17	03	03	~~36~~	.	.	21		18
19	.	01	36	.	63	48	.	.	36	18	.	16		19
20	.	.	01	14	13	.	.	08	18	16	.	02		20
21	06	.	03	.	37	56	.	10	06	10	01	.		21
22	05	.	.	.	08	.	.	25	67	11	.	06		22
23	.	.	12	56	.	01	57	.	.	17	05	.		23
24	.	24	08	17	.	10	04	.	36	19	.	.		24
25	07	13	.	09	02	.	24	.	25	39	.			25
26	18	.	06	28	.	16	45	.	49	08	05	68		26
27	.	.	.	24	.	62	50	.	10	47	03	29		27
28	.	.	.	05	.	16	12	20	.	28	.	74		28
29	.		.	.	.	.	15	60	45	12	.			29
30	06	✕	.	.	.	.	10	56	12	19	.	29		30
31	02	✕	.	✕	.	✕	52	.	✕	09	✕	16		31
TOTAL	3·99	·55	3·20	3·05	3·33	2·66	3·27	3·66	4·33	5·58	2·59	6·64	Year's Total 42.85	
*Days with ·01 in. or more.	19	11	22	18	15	12	13	19	17	28	17	24	215	
*Days with ·04 in. or more.	17	4	18	16	13	9	12	17	16	25	12	22	181	

† Spare column, no entries required.

(*Signed*)

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*See Instruction 2 (*f*) on other side.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2857

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Butterworth Hall

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 512 ft.

daps

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	52	39	02	08	·	04	05	·	07	·99	16	12	1
2	03	✗	–	·	·	24	01	·	09	24	07	50	2
3	09	✗87	✗13	09	·	04	47	·	47	01	12	16	3
4	·	01	02	·	·	25	09	·	37	24	·	03	4
5	–	59	22	25	·	69	03	·	17	11	24	29	5
6	✓01	01	01	✗	·	42	·	·	·	·	·	01	6
7	02	·	·	✗26	·	32	·	·	·	37	13	32	7
8	·	·	·	12	·	·	·	·	·	30	03	47	8
9	·	–	·	44	·	09	·	·	·	2·38	18	·	9
10	·	✗08	·	34	·	06	·	·	·	53	10	·	10
11	46	16	·	01	·	12	·	·	·	35	13	07	11
12	–	17	·	·	·	90	·	·	07	01	·	·	12
13	✗15	09	·	14	29		·	·	06	11	03	·	13
14	·	·	·	28	12	✗	·	·	18	·	1·30	23	14
15	·	1·49	·	34	08	44	·	·	53	17	20	35	15
16	·	✗	✗	30	03	✗ ·	17	·	69	01	33	·	16
17	·	✗38	–11	56	·53	13	03	02	39	05	52	·	17
18	·	02	·	12	06	11	34	·	50	50	13	·	18
19	–	07	·	24	·	34	26	·	·	18	25	·	19
20	✓01	75	·	39	·	21	✗	·	·	·	35	·	20
21	·	21	01	05	·	·	–24	·	96	26	16	35	21
22	01	09	10	·	·	·	·	·	11	·	02	·	22
23	03	–	94	82	·	·	·	52	06	27	·	·	23
24	45	✗70	04	·	·	·	·	·	1·51	05	·	14	24
25	16	10	29	·	·	23	·	·	·	·	08	05	25
26	·	·	·	·	·	·	07	1·25	50	57	20	26	26
27	·	09	·	·	·	09	39	02	43	1·19	49	11	27
28	02	06	·	·	09	·	·	02	12	49	13	01	28
29	01		04	·	·	–	·	01	17	70	12	22	29
30	09	X	·	01	·	✗18	·	20	48	77	89	12	30
31	03	X	02	X	·	X	·	·	X	31	X	32	31
TOTAL	2·09	6·33	1·95	4·84	1·20	4·90	2·15	2·04	7·93	11·16	6·36	4·13	YEAR'S TOTAL 55·08
*Days with ·01 in. or more.	16	22	13	20	7	20	12	7	21	26	25	20	209
*Days with ·04 in. or more.	7	19	8	18	6	26	9	3	21	23	22	17	173

40-9999

*See Instruction 2 (*f*) on other side,

(*Signed*) Rine Battey

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2857

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Butterworth Hall

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 512 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	02	09	05	25	.	02	.	38	06	.	23	39		1
2	01	06	04	04	.	66	11	16	04	.	14	18		2
3	.	.	.	.	.	62	05	18	62	.	.	12		3
4	38	16	27	.	.	04	01	15	59	01	28	40		4
5	05	05	64	.	02	.	.	18	49	.	18	48		5
6	12	.	05	.	02	01	10	51	75	.	19	.		6
7	01	.	13	.	.	.	19	.	98	.	18	22		7
8	36	.	19	.	.	.	.	.	03	.	64	23		8
9	28	02	04	.	.	.	01	.	11	02	1·28	.		9
10	11	.	.	.	.	.	70	.	.	.	1·11	.		10
11	.	.	.	03	.	18	49	03	03	.	64	03		11
12	.	.	.	24	07	78	43	05	50	09	31	04		12
13	04	.	.	15	02	02	09	.	01	32	03	56		13
14	.	.	.	11	.	34	14	11	63	20	35	80		14
15	14	.	02	09	01	12	12	09	12	.	57	13		15
16	02	07	02	04	01	.	03	.	.	03	89	.		16
17	11	41	03	02	02	.	27	14	.	78	08	21		17
18	.	04	.	02	.	11	22	09	.	97	01	03		18
19	40	30	03	03	.	13	18	32	.	14	.	.		19
20	24	08	.	01	.	.	02	01	01	04	.	01		20
21	12	.	05	08	.	.	.	.	.	10	.	.		21
22	15	52	06	.	02	2·22	16	.	.	02	.	09		22
23	.	03	29	24	06	.	63	01	.	09	.	01		23
24	11	05	.	06	30	.	01	06	18	95	.	08		24
25	23	02	01	05	.	03	01	.	35	38	.	04		25
26	04	21	11	07	.	.	01	.	01	86	.	01		26
27	75	.	05	.	.	.	.	.	24	41	.	.		27
28	53	67	08	.	.	.	08	.	.	01	01	15		28
29	11	37	93	.	05	58	.	.	.	11	21	10		29
30	35	✕	03	.	69	05	29	01	.	73	11	05		30
31	06	✕	02	✕	04	✕	09	.	✕	01	✕	43		31
													Year's Total	
TOTAL	4·74	3·15	3·14	1·53	1·33	5·91	4·44	2·48	5·75	6·27	7·44	4·79	50·97	✓
* Days with .01 in. or more.	25	17	22	17	13	16	25	17	19	21	20	24	236	✓
* Days with .04 in. or more.	21	14	15	12	6	12	18	13	14	15	17	19	176	✓

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) .... [P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2857

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

Kept at Butterworth Hall

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 512 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	08	23	13	.	.	01	03	.	47	.	.	22		1
2	34	39	20	18	.	01	09	.	02	03	.	15		2
3	01	13	08	06	05	60	03	.	02	.	.	04		3
4	27	03	04	16	13	01	04	03	.	.	.	81		4
5	1·40	.	13	01	.	01	06	.	01	.	.	02		5
6	08	01	02	09	08	.	01	54	04	02	03	11		6
7	09	45	.	49	07	06	.	.	08	.	.	05		7
8	.	50	01	05	.	19	08	01	.	.	02	05		8
9	03	25	.	04	18	02	40	52	.	.	.	01		9
10	03	15	01	02	05	03	04	03	.	03	.	34		10
11	.	01	49	.	12	.	06	01	.	.	.	03		11
12	14	40	08	03	07	15	08	45	23	.	.	28		12
13	.	17	03	01	02	54	.	15	09	02	.	19		13
14	.	11	18	.	.	.	.	17	14	02	.	15		14
15	44	47	.	37	.	.	56	.	14	.	.	03		15
16	14	65	17	23	15	01	.	17	17	.	.	01		16
17	07	05	40	11	01	03	.	03	16	.	.	.		17
18	34	36	24	13	.	.	01	20	12	.	31	.		18
19	13	35	02	24	03	16	10	04	.	.	71	01		19
20	11	25	.	11	54	03	.	.	.	.	.	05		20
21	04	07	02	10	02	.	45	.	.	.	.	28		21
22	04	.	15	06	04	.	25	.	.	46	21	19		22
23	13	.	01	.	30	.	17	.	.	58	23	01		23
24	07	32	18	.	07	.	08	.	15	18	.	06		24
25	09	48	.	.	.	.	01	09	01	07	.	03		25
26	.	39	06	.	63	.	.	09	11	.	.	09		26
27	.	53	03	15	.	.	.	.	.	43	.	03		27
28	01	32	02	.	.	07	.	.	.	14	.	.		28
29	03		.	.	.	02	.	.	.	03	13	03		29
30	12	X	.	.	.	29	.	14	.	13	79	04		30
31	24	X	.	X	.	X	.	06	X	15	X	.	Year's Total	31
TOTAL	4·47	7·07	2·70	2·64	2·56	2·24	2·55	2·73	1·96	2·29	2·43	3·31	36·95	✓
*Days with ·01 in. or more.	25	25	23	20	18	18	19	17	16	14	8	27	230	✓
*Days with ·04 in. or more.	20	22	14	16	14	8	13	12	12	9		17	162	✓

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) Chas. J. Oakley.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2857

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1938.

Kept at Butterworth Hall
in the County of Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 512 ft.

OLDHAM CORPORATION
ENGINEER'S OFFICE
4 JAN 1939
PIETHORNE, NR. ROCHDALE
WATERWORKS

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	.	04	.	05	.	88	07	07	.	01	22	40		1
2	05	08	.	45	15	58	02	.	.	1·19	14	40		2
3	02	.	.	.	.	04	09	.	22	1·64	20	04		3
4	04	.	.	07	.	04	40	66	.	52	34	1·40		4
5	02	04	.	07	.	05	31	55	04	72	02	04		5
6	29	01	.	.	.	05	48	.	10	44	.	02		6
7	44	.	.	.	.	.	42	03	24	48	.	.		7
8	36	01	.	.	.	.	39	01	.	1·14	.	24		8
9	18	52	12	.	.	35	18	02	.	13	.	35		9
10	.	10	02	.	.	08	68	.	.	15	.	04		10
11	19	07	.	.	02	03	19	05	05	12	14	04		11
12	28	.	.	.	20	.	.	25	.	1·39	22	02		12
13	02	02	.	.	01	.	06	.	04	34	41	33		13
14	24	06	.	.	17	.	19	.	08	03	09	03		14
15	49	.	02	.	.	.	34	35	.	05	.	32		15
16	1·15	.	04	.	24	.	18	25	.	09	09	22		16
17	.	01	.	.	35	.	13	28	11	46	08	04		17
18	17	.	.	.	11	06	.	48	01	59	28	02		18
19	01	.	.	.	.	.	.	39	04	.	.	09		19
20	32	.	.	.	.	.	.	08	10	.	59	04		20
21	03	.	08	.	.	.	.	03	02	.	06	04		21
22	.	.	.	02	.	31	.	.	.	.	36	05		22
23	01	.	.	.	23	53	.	.	06	.	62	02		23
24	11	02	24	.	09	12	42	44	08	01	24	03		24
25	38	49	07	.	01	05	21	03	.	50	48	06		25
26	29	50	27	.	05	10	.	01	05	35	22	11		26
27	42	24	03	.	92	78	18	21	04	01	48	.		27
28	37	13	14	.	27	77	11	29	10	06	05	15		28
29	22		24	.	1·38	19	20	.	.	15	13	44		29
30	33	✕	.	.	13	19	03	.	34	02	29	18		30
31	34	✕	07	✕	42	✕	.	.	✕	65	✕	94		31
TOTAL	6·77	2·34	1·34	·66	4·75	5·20	5·28	4·48	1·81	11·54	6·14	6·22	Year's Total 56·59	✓
*Days with ·01 in. or more.	27	16	12	5	17	19	22	20	18	26	23	29	234	✓
*Days with ·04 in. or more.	21	11	9	4	14	18	20	14	16	21	22	23	193	✓

40-9999
*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.
(*Signed*) Charles Burgess

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** **for the entry of Daily Observations** **Station No.** 2857

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939

Kept at Butterworth Hall

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 512 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	27	·	29	05	·	·	04	14	08	02	·	54		1
2	09	·	02	09	·	·	46	42	92	07	08	14		2
3	06	·	·	10	·	·	·	14	·	02	04	66		3
4	18	·	40	36	·	·	92	-	·	·	06	79		4
5	·	·	·	-	57	·	37	07	·	19	29	07		5
6	76	25	01	-	·	·	62	·	·	·	32	·		6
7	39	40	26	-	28	·	12	·	·	·	15	26		7
8	46	16	25	03	·	·	83	09	·	09	38	63		8
9	11	63	·	·	·	·	06	32	·	40	11	66		9
10	14	02	02	·	·	10	·	56	49	16	04	12		10
11	60	07	23	·	·	19	·	02	03	04	-	02		11
12	37	17	·	·	·	12	·	·	02	·	·	·		12
13	05	·	01	42	26	12	07	·	06	09	02	·		13
14	69	·	02	04	47	45	29	·	·	05	30	·		14
15	16	07	01	73	16	1·06	13	·	03	·	19	·		15
16	17	·	11	·	39	·	06	·	·	·	09	·		16
17	70	34	02	06	07	02	·	·	·	20	09	·		17
18	09	26	03	·	·	20	19	·	·	02	79	·		18
19	29	·	·	·	·	·	23	·	·	·	01	·		19
20	02	·	·	·	·	22	14	10	02	·	·	·		20
21	11	10	56	17	17	·	·	·	07	·	·	·		21
22	13	28	17	02	02	·	10	·	·	03	60	·		22
23	04	66	02	21	·	·	12	·	·	53	24	03		23
24	04	16	11	08	·	05	01	01	·	05	03	·		24
25	32	26	02	·	·	09	·	01	·	·	1·67	·		25
26	05	04	·	·	02	·	·	1·23	·	24	54	06		26
27	10	1·64	41	·	·	31	08	06	·	15	39	14		27
28	02	25	25	04	·	37	71	01	·	·	83	·		28
29	·	×	01	·	·	·	1·32	·	·	29	40	·		29
30	·	×	·	·	·	13	16	·	·	·	31	·		30
31	·	×	·	×	·	×	25	03	×	03	×	·		31
													Year's Total	
TOTAL	6·41	5·76	3·23	2·40	2·41	3·43	7·28	3·21	1·72	2·67	7·97	4·12	50·61	
* Days with .01 in. or more.	27	18	22	14	10	14	23	15	9	19	25	13	209	
* Days with .04 in. or more.	25	17	11	12	8	13	22	10	5	14	22	11	170	

† Spare column, no entries required.

(*Signed*) Charles Busfield [P.T.O.

* See Instruction 3 (f) on other side.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2857

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1940

Kept at Butterworth Hall

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 512 ft.

Jan 26th estd from nearby stns

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·	03	·	·24	·	·	·	·	·03	·	·52	·25		1
2	·	·	·	·20	·	·	·08	·	·	·	·55	·18		2
3	06	04	·	·15	·	·	·10	·	·	·12	·04	·29		3
4	·	13	·02	·16	·	·	·04	·	·	·22	·32	·30		4
5	·	02	·	·	·14	·	·08	·	·	·62	·08	·54		5
6	03	15	·	·	·	·	·05	·	·	·95	·06	·12		6
7	18	28	·	·25	·14	·	·04	·31	·13	·04	·	·		7
8	03	·	·03	·03	·	·	·	·08	·	·31	·05	·33		8
9	·	·	·23	·	·	·	·98	·32	·31	·53	1·33	·29		9
10	·	·	·04	·	·	·	·38	·25	·05	·26	·62	·59		10
11	·	06	·06	·04	·	·08	·44	·	·	·	1·63	·04		11
12	·	02	·41	·	·	·	·20	·02	·48	·	·45	·		12
13	·	06	·16	·04	·	·	·	·08	·54	·	·14	·01		13
14	·	04	·01	·34	·14	·	·12	·09	·13	·	·12	·60		14
15	·	·	·04	·04	·13	·02	·	·	·02	·01	·06	·04		15
16	10	04	·12	·14	·	·	·43	·	1·54	·39	·22	·04		16
17	·	·	·62	·	·30	·	·35	·	·21	·	·54	·03		17
18	06	04	·25	·42	·	·	·02	·24	·21	·	·03	·30		18
19	·	23	·25	·04	·	·	·38	·	·44	·01	·24	·01		19
20	·	06	·08	·33	·	·	1·01	·45	·23	·14	·21	·		20
21	01	·	·31	·03	·	·35	·22	·06	·02	·11	·85	·		21
22	·	12	·08	·	·09	·13	·	·05	·56	·02	·02	·02		22
23	·	29	·06	·12	·01	·	·10	·	·08	·05	·19	·		23
24	64	03	·01	·04	·	·	·	·01	·	·03	·	·04		24
25	06	·	·	·	·02	·03	·01	·	·	·09	·	·		25
26	(·64) ~~44~~	12	·04	·	·04	·06	·02	·	·01	·01	·03	·		26
27	13	39	·	·03	·	·	·46	·	·	·	·01	·01		27
28	16	48	·	·	·55	·	·	·13	·	·	·	·03		28
29	·	·	·32	·01	·	·38	·02	·	·	·02	·	·59		29
30	02	✕	·	·16	·	·	·	·	·	·46	·01	·36		30
31	06	✕	·20	✕	·02	✕	·	·05	✕	·94	✕	·02		31
TOTAL	2·21 ~~1·41~~	2·69	3·40	3·20	1·59	1·05	5·59	2·12	5·08	5·33	8·41	5·12	Year's Total ~~45·51~~	46·09
* Days with .01 in. or more.	14	20	21	20	12	4	22	14	14	21	25	24	214	
* Days with .04 in. or more.	10	16	14	16	8	5	18	11	13	15	20	14	166	

·57
1·07

† Spare column, no entries required.

(*Signed*) Charles [illegible] [P.T.O.

* See Instruction 3 (f) on other side.

2858

Section **A** for the entry … **OFFICIAL USE.**

AIR MINIST … NIZATION.

FORM 1090. **REGI**

Kept at .... Kit

in the County of ....

Diameter of Funnel of Gauge ....

Height of top of Gauge above Gr

,, Ground ,, Se

THE MORNING MEA

An observer who does not conform
year in the space on the right o

Please rea

2858

MILNROW - PIETHORNE - KITCLIFFE

1931 - 1940

Jan. 1, following.

Date	Jan.	Feb.	Marc									Dec.	*Date*
	in.	in.	in.									in.	
1	11	05	.									.	1
2	01	08	.									06	2
3	.	.	.									57	3
4	.	07	.									40	4
5	.	10	.									39	5
6	.	35										.	6
7	.	.										17	7
8	10	38										.	8
9	.	1·14										04	9
10	13	10										.	10
11	55	86										.	11
12	05	14										.	12
13	.	.										.	13
14	18	13	.	01	07	70	02	95	02	.		01	14
15	26	37	.	13	20	02	05	45	.	.	02	05	15
16	65	17	.	36	51	55	10	79	31	.	-	.	16
17	11	13	.	21	03	07	31	55	04	.	03	.	17
18	34	02	.	31	.	54	50	13	.	.	92	.	18
19	18	32	.	08	.	.	01	1·20	01	02	.	02	19
20	03	17	01	03	.	05	.	20	.	.	14	.	20
21	55	07	08	.	08	13	02	25	.	.	02	.	21
22	22	11	.	02	12	07	01	.	.	.	.	.	22
23	47	.	01	22	13	33	49	.	.	.	1·04	27	23
24	11	47	.	05	67	.	13	.	.	.	02	05	24
25	12	1·08	.	33	11	.	09	.	.	.	07	09	25
26	05	16	.	29	.	.	.	.	.	.	55	04	26
27	51	11	.	02	08	.	34	.	.	26	1·12	10	27
28	35	35	.	11	15	.	18	.	04	.	.	08	28
29	31		.	01	19	.	17	.	.	74	04	.	29
30	01	✕	.	08	.	.	.	.	09	.	01	.	30
31	51	✕	.	✕	27	✕	04	.	✕	02	✕	09	31
TOTAL	5·91	6·93	·41	3·99	3·39	6·31	5·38	6·59	4·62	2·84	8·95	2·43	YEAR'S TOTAL 57·75
Days with ·01 in. or more.	24	24	9	24	18	19	24	16	17	13	23	16	227
Days with ·04 in. or more.	21	23	4	17	17	18	18	13	[illegible]	10	[illegible]	14	186

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(Signed) .... [P.T.O.

Section **A** for the entry

OFFICIAL USE.

2858

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Kitcliffe
in the County of Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 766 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following.

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	11	05	.	16	.	23	.	.	05	14	.	.	1
2	01	08	.	71	06	1·13	.	.	1·23	07	08	06	2
3	.	.	.	48	.	10	43	.	43	01	1·53	57	3
4	.	07	.	31	.	.	13	.	1·52	10	48	40	4
5	.	10	.	.	24	86	01	40	12	.	.	39	5
6	.	35	01	.	.	25	1·27	03	16	70	26	.	6
7	.	.	01	.	.	72	.	33	.	36	05	17	7
8	10	38	05	08	05	.	34	65	01	08	38	.	8
9	.	1·14	04	34	.	11	01	37	02	04	38	04	9
10	13	10	02	.	35	32	.	24	06	.	37	.	10
11	55	86	.	03	.	09	11	03	32	.	70	.	11
12	05	14	.	02	.	04	48	.	19	30	30	.	12
13	.	.	18	.	08	.	14	02	.	.	.	.	13
14	18	13	.	01	07	70	02	95	02	.	44	01	14
15	26	37	.	13	20	02	05	45	.	.	02	05	15
16	65	17	.	36	51	55	10	79	31	.	.	.	16
17	11	13	.	21	03	07	31	55	04	.	03	.	17
18	34	02	.	31	.	54	50	13	.	.	92	.	18
19	18	32	.	08	.	.	01	1·20	01	02	.	02	19
20	03	17	01	03	.	05	.	20	.	.	14	.	20
21	55	07	08	.	08	13	02	25	.	.	02	.	21
22	22	11	.	02	12	07	01	.	.	.	.	.	22
23	47	.	01	22	13	33	49	.	.	.	1·04	27	23
24	11	47	.	05	67	.	13	.	.	.	02	05	24
25	12	1·08	.	33	11	.	09	.	.	.	07	09	25
26	05	16	.	29	:	.	.	.	.	.	55	04	26
27	51	11	.	02	08	.	34	.	.	26	1·12	10	27
28	35	35	.	11	15	.	18	.	04	.	.	08	28
29	31		.	01	19	.	17	.	.	74	04	.	29
30	01	×	.	08	.	.	.	.	09	.	01	.	30
31	51	×	.	×	27	×	04	.	×	02	×	09	31
TOTAL	5·91	6·93	·41	3·99	3·39	6·31	5·38	6·59	4·62	2·84	8·95	2·43	YEAR'S TOTAL 57·75
Days with ·01 in. or more.	24	24	9	24	18	19	24	16	17	13	23	16	227
Days with ·04 in. or more.	21	23	4	17	17	18	18	13	[illegible]	[illegible]	8	14	186

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(Signed) [P.T.O.

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE. 2858

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Kitcliffe

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 766 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·44	01	.	50	24	.	31	03	70	41	19	02	1
2	1·15	.	.	.	59	.	01	04	1·32	22	20	49	2
3	10	.	.	.	.	.	75	.	15	.	.	11	3
4	05	01	.	04	.	.	09	.	01	06	24	01	4
5	1·19	.	12	30	05	.	.	02	14	.	.	02	5
6	1·30	.	22	45	03	.	.	.	28	.	.	.	6
7	21	.	58	13	.	.	.	.	77	22	01	.	7
8	.	.	.	16	.	.	.	.	12	83	01	.	8
9	17	12	.	73	07	.	.	.	02	.	.	07	9
10	59	04	01	11	01	.	.	.	60	48	.	08	10
11	03	07	01	07	57	27	1·63	.	21	01	03	.	11
12	50	.	.	.	63	03	05	04	01	62	02	.	12
13	.	05	.	14	21	.	14	02	40	57	02	25	13
14	05	.	.	03	.	.	04	01	01	10	15	.	14
15	.	.	.	04	45	.	.	.	.	18	20	13	15
16	32	.	.	16	01	.	01	01	.	18	01	17	16
17	.	.	.	.	.	.	09	07	03	54	.	.	17
18	.	.	.	.	09	.	.	.	01	.	01	.	18
19	.	01	.	19	30	.	.	.	.	42	.	.	19
20	.	.	.	25	47	.	06	38	.	19	07	.	20
21	03	.	25	06	35	.	04	42	.	66	08	03	21
22	02	.	20	19	23	.	12	.	.	05	96	14	22
23	.	02	.	03	61	.	11	.	.	07	11	09	23
24	05	.	.	04	01	02	39	.	31	.	13	01	24
25	.	05	.	09	10	01	04	.	10	94	21	.	25
26	.	01	.	17	26	.	46	.	07	29	25	01	26
27	.	.	38	23	42	08	24	.	.	09	09	18	27
28	.	.	22	07	15	.	20	.	.	.	.	09	28
29	06	.	66	12	08	12	28	44	17	1·19	18	34	29
30	.	×	13	01	.	51	09	09	01	08	45	16	30
31	01	×	16	×	01	×	11	.	×	.	×	10	31
TOTAL	6·27	·39	2·94	4·31	5·94	1·04	4·86	1·57	5·44	8·40	3·62	2·50	YEAR'S TOTAL 47·28
*Days with ·01 in. or more.	18	10	12	25	24	7	22	12	21	23	22	20	216
*Days with ·04 in. or more.	14	5	10	22	19	4	20	7	14	22	15	14	166

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*See Instruction 2 (*f*) on other side.

(Signed)

P.T.O.

2858

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Kitcliffe

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 766 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·09	76	02	·	·	·	·	·	06	·	26	·	1
2	·54	·	21	28	·	23	·	06	·	·	02	·	2
3	·	50	35	·	35	·	·	·	·	·	05	·	3
4	24	21	30	·	18	·	·	·	·	·	·	·	4
5	28	23	09	·	13	·	·	·	·	·	04	·	5
6	03	10	01	·	21	·	·	·	·	·	·	06	6
7	08	44	21	·	11	·	05	03	·	83	·	03	7
8	35	14	15	01	11	·	35	02	·	01	·	11	8
9	·	45	·	33	04	01	92	06	·	86	12	01	9
10	17	07	·	·	·	08	08	·	·	1·05	15	·	10
11	·	·	·	01	·	·	80	01	·	47	·	02	11
12	01	·	·	·	·	21	21	·	·	04	·	08	12
13	01	·	02	·	20	01	41	·	07	28	23	·	13
14	34	·	04	·	10	·	11	·01	·	04	32	·	14
15	60	·	04	·	·	·	03	14	·	19	72	01	15
16	21	02	21	01	04	34	·	·	·	18	08	·	16
17	07	·	1·40	02	·	50	·	30	12	·	28	·	17
18	·	06	30	·	04	69	·	03	·	·	08	·	18
19	·	02	66	02	·	10	04	·	05	·	08	02	19
20	·	16	·	·	·	01	·	31	15	·	·	01	20
21	·	01	·	·	·	06	·	29	12	·	·	01	21
22	·	·	·	·	·	55	·	10	·	09	·	·	22
23	·	04	·	38	04	·	·	03	09	02	·	·	23
24	·	40	·	21	12	54	·	·	82	·	01	·	24
25	·	36	·	17	·	·	·	·	72	·	02	04	25
26	·	72	·	75	·	·	·	·	·	28	02	·	26
27	·	01	·	01	01	·	·	·	01	·	·	·	27
28	·	·	·	14	·	·	10	·	01	23	·	·	28
29	·		·	02	·	·	15	·	·	06	·	06	29
30	05	X	06	03	12	·	27	·	·	26	·	20	30
31	43	X	08	X	·	X	21	13	X	16	X	·	31
TOTAL	3·50	4 70	4·15	2·39	1·80	3·33	3·73	1·52	2·22	5·05	2·48	·66	YEAR'S TOTAL 35·53
*Days with ·01 in. or more.	16	19	17	15	16	13	14	14	11	17	16	13	180
*Days with ·04 in. or more.	13	15	14	7	14	10	13	8	9	15	12	6	136

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*See Instruction 2 (*f*) on other side.

(Signed) .... [P.T.O.

COPY FOR OFFICIAL USE.

Section A for the entry of Daily Observations. Station No. 2858

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Kitcliffe

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 766 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·17	·	03	·	·	·	·	11	09	16	07	46		1
2	·01	02	12	·	01	·	·	55	09	·	17	79		2
3	11	01	·	·	·	·	·	02	01	10	10	08		3
4	19	·	16	10	05	·	·	·	05	72	·	78		4
5	·	·	04	01	13	·	·	37	·	36	09	27		5
6	·	·	07	10	64	10	·	09	·	25	·	35		6
7	38	03	20	06	·	02	·	·	·	15	34	45		7
8	·	·	04	·	10	38	·	08	04	11	81	08		8
9	·	04	06	11	·	·	·	10	02	04	74	03		9
10	·	01	42	26	·	·	·	15	·	38	21	·		10
11	19	·	16	34	·	·	·	10	·	02	03	21		11
12	01	·	07	34	·	·	27	12	·	05	·	04		12
13	31	·	·	05	08	·	24	02	·	22	01	·		13
14	27	·	15	·	04	01	·	·	·	37	19	11		14
15	47	·	45	·	80	·	·	10	72	·	04	33		15
16	53	·	17	·	18	·	·	·	·	·	10	07		16
17	53	·	32	01	15	·	20	·	33	06	·	34		17
18	40	·	18	08	61	19	08	06	·	·	·	28		18
19	·	·	35	·	13	45	·	·	46	14	·	14		19
20	·	·	03	15	34	·	·	10	12	20	·	01		20
21	04	·	01	·	10	66	·	05	05	11	·	·		21
22	05	·	04	·	01	·	·	43	64	11	·	·		22
23	·	·	10	55	·	01	57	04	·	17	05	04		23
24	·	18	07	16	·	09	03	·	42	15	·	·		24
25	08	05	·	13	02	·	27	·	25	46	·	39		25
26	14	·	05	25	·	24	35	·	49	08	05	10		26
27	·	01	·	27	·	40	51	·	10	45	02	24		27
28	·	·	·	09	·	13	13	19	·	20	·	69		28
29	·		·	·	·	·	15	55	45	10	·	15		29
30	11	✕	·	·	·	·	12	39	19	22	·	24		30
31	01	✕	·	✕	·	✕	43	·	✕	04	✕	16		31
TOTAL	4·00	·35	3·29	3·06	3·39	2·68	3·35	3·62	4·52	5·42	3·02	6·83	Year's Total 43·53	
*Days with ·01 in. or more.	19	8	23	18	16	12	13	20	18	27	16	26	216	
*Days with ·04 in. or more.	16	3	20	16	13	9	12	18	16	20	18	20	186	

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*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) Chas. J. Stanley,

[P.T.O.

COPY FOR OFFICIAL USE. /

Section **A** for the entry of Daily Observations. Station No. 2858

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Kitcliffe

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 766 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·51	29	03	02	·	·	05	·	10	1·06	15	19	1
2	02	08	·	·	·	23	02	·	09	25	06	38	2
3	08	64	11	04	·	03	47	·	56	01	28	13	3
4	·	01	02	·	·	33	09	·	38	17	·	01	4
5	·	55	21	19	·	89	04	·	13	05	21	25	5
6	02	01	01	04	·	49	·	·	·	·	·	·	6
7	02	·	·	14	·	40	·	·	·	35	23	30	7
8	01	·	·	14	·	·	·	·	·	29	02	36	8
9	01	·	·	45	·	10	·	·	·	2·13	16	·	9
10	·	06	01	42	·	04	·	·	·	56	11	·	10
11	46	16	·	·	·	15	·	·	·	32	15	09	11
12	·	16	·	·	·	91	·	·	07	01	·	·	12
13	12	07	·	14	33	·	·	·	06	11	01	·	13
14	·	·	·	33	10	16	·	·	18	01	1·33	21	14
15	·	1·30	·	49	07	·	·	·	64	19	21	38	15
16	·	34	12	34	02	25	21	01	63	02	45	·	16
17	·	05	·	50	49	20	03	01	37	04	59	·	17
18	02	02	·	12	06	11	31	·	52	51	10	·	18
19	·	11	·	26	·	35	30	·	·	09	25	·	19
20	02	82	·	30	·	24	25	·	·	·	55	·	20
21	·	25	01	03	·	·	·	·	78	18	20	·18	21
22	·	18	10	03	·	·	·	·	06	·	01	·	22
23	·	·	95	37	·	·	·	54	03	28	·	·	23
24	35	58	02	·	·	·	·	·	1·52	05	·	14	24
25	10	11	40	·	·	42	·	·	·	·	07	06	25
26	·	·	·	·	·	·	06	1·27	51	44	20	25	26
27	·	08	·	·	·	10	34	·	46	86	46	16	27
28	04	25	·	·	03	·	·	04	13	38	22	01	28
29	·		05	·	·	·	·	·	16	56	12	21	29
30	06	×	·	·	·	16	·	17	40	75	87	08	30
31	02	×	02	×	·	×	·	·	×	30	×	28	31
TOTAL	1·86	6·12	2·06	4·35	1·10	5·56	2·17	2·04	7·70	9·97	7·01	3·67	YEAR'S TOTAL 53·61
*Days with ·01 in. or more.	16	22	14	19	7	19	12	6	21	27	25	19	207
*Days with ·04 in. or more.	8	19	7	17	5	18	10	4	20	23	22	17	170

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*See Instruction 2 (*f*) on other side,

(Signed) Chas. J. Batley

~~P.T.O.~~

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2858

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Kitcliffe

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 766 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	01	13	04	34	.	.	.	35	06	.	25	26		1
2	.	04	02	13	.	91	01	22	04	.	04	15		2
3	.	.	.	.	.	84	05	20	67	.	.	12		3
4	39	19	24	.	.	03	02	10	62	.	29	39		4
5	07	04	60	.	01	.	.	19	40	01	27	26		5
6	15	.	05	.	.	01	11	61	69	.	14	.		6
7	01	.	13	.	.	.	36	.	92	.	14	19		7
8	40	.	21	.	.	.	.	.	05	.	66	19		8
9	31	02	04	.	.	.	01	.	07	01	1·16	.		9
10	08	.	.	.	.	.	35	.	.	.	95	.		10
11	.	.	.	01	.	16	43	02	03	.	64	02		11
12	.	.	.	20	06	50	59	04	56	06	30	03		12
13	03	.	.	13	03	02	10	.	.	26	02	56		13
14	.	.	.	14	.	33	05	10	62	16	37	1·06		14
15	22	.	04	21	01	13	25	15	15	.	58	15		15
16	04	04	01	06	.	.	04	.	02	03	84	.		16
17	13	42	01	01	05	.	25	14	.	65	07	27		17
18	.	06	.	.	.	10	24	12	.	97	.	03		18
19	16	27	04	05	.	15	15	32	.	08	.	.		19
20	29	06	.	.	.	.	02	.	01	04	.	.		20
21	10	.	05	10	.	.	.	.	.	06	.	.		21
22	16	48	02	02	02	2·11	15	.	.	.	.	08		22
23	.	03	41	25	10	.	71	.	.	09	.	.		23
24	13	10	.	09	48	.	05	07	19	1·03	01	05		24
25	21	01	02	05	.	06	09	.	44	28	.	03		25
26	03	22	19	05	.	.	01	.	07	77	.	.		26
27	88	.	03	.	.	.	.	.	16	28	.	.		27
28	59	59	09	.	.	.	07	.	.	.	.	10		28
29	09	37	1·01	.	01	54	.	.	.	11	18	14		29
30	33	×	02	.	77	03	27	.	.	78	06	05		30
31	04	×	02	×	.	×	07	.	×	.	×	47		31
TOTAL	4·85	3·07	3·29	1·84	1·54	5·92	4·45	2·13	5·77	5·67	6·97	4·60	Year's Total 50·60	✓
* Days with .01 in. or more.	24	17	22	16	10	15	25	14	19	18	19	21	220	✓
* Days with .04 in. or more.	20	14	14	13	5	11	20	13	16	[illegible]	[illegible]	17	175	✓

40-9999.

† Spare column, no entries required.

(*Signed*) Chas. Blakey [P.T.O.

* See Instruction 2 (f) on other side.

COPY FOR OFFICIAL USE.

Section A **for the entry of Daily Observations.** **Station No.** 2858

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

Kept at Kitcliffe
in the County of Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 766 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	10	19	15	.	.	.	03	.	48	.	.	20		1
2	28	40	18	13	.	.	01	.	01	01	.	17		2
3	.	19	06	05	05	69	02	.	.	.	.	04		3
4	25	05	07	16	11	.	04	05	.	.	.	77		4
5	1·36	.	21	.	.	.	01	.	.	.	.	02		5
6	05	.	04	12	09	.	.	72	02	01	05	10		6
7	05	32	.	52	06	08	.	.	08	.	01	06		7
8	.	47	.	07	.	15	07	.	.	.	02	08		8
9	02	21	01	05	23	01	41	50	.	.	.	03		9
10	03	09	.	.	05	03	02	01	.	01	.	46		10
11	.	.	51	.	18	.	04	.	.	.	.	05		11
12	14	39	15	01	07	05	08	05	20	.	.	29		12
13	.	13	02	01	03	73	.	07	06	01	.	21		13
14	.	10	13	.	.	.	.	21	15	01	.	18		14
15	49	49	.	37	.	.	47	.	13	.	.	04		15
16	15	55	10	22	04	.	.	21	17	.	.	03		16
17	03	05	43	06	.	10	.	02	24	.	.	.		17
18	49	30	37	14	.	.	.	29	17	.	42	.		18
19	15	30	02	25	.	15	11	04	.	.	80	.		19
20	09	10	.	11	56	05	.	.	.	.	.	03		20
21	03	05	03	10	.	.	51	.	.	.	.	24		21
22	01	.	24	04	04	.	23	.	.	49	18	19		22
23	02	.	01	.	25	.	20	.	.	71	45	.		23
24	08	27	15	.	05	.	06	.	17	11	.	04		24
25	07	44	.	.	.	.	.	05	.	11	.	01		25
26	.	35	06	.	56	.	.	10	10	.	.	07		26
27	.	38	.	14	.	.	.	.	.	55	.	04		27
28	.	14	.	.	.	07	.	.	.	14	.	.		28
29	04		.	.	05	02	.	.	.	04	18	03		29
30	10	✕	.	.	.	30	.	24	.	15	83	05		30
31	35	✕	.	✕	.	✕	.	06	✕	10	✕	.		31
TOTAL	4·38	5·96	2·94	2·55	2·42	2·43	2·31	2·62	1·98	2·45	2·94	3·43	Year's Total 36·41	✓
*Days with ·01 in. or more.	23	23	20	18	16	13	12	15	13	14	9	25	205	✓
*Days with ·04 in. or more.	17	23	15	16	15	10	11	13	11	9	7	19	166	✓

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) Chas J Hatley.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2858

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1938.

Kept at Kitcliffe

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 766 ft.

OLDHAM CORPORATION
ENGINEER'S OFFICE
4 JAN 1939
PIETHORNE, Nr. ROCHDALE
WATERWORKS

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·	03	·	07	·	72	03	08	·	·	16	38		1
2	10	07	·	40	08	38	01	·	·	1·32	14	35		2
3	03	·	·	·	·	04	06	·	19	1·72	22	04		3
4	07	·	·	06	·	04	44	38	·	45	32	1·40		4
5	·	03	·	07	·	06	30	1·29	04	72	·	07		5
6	25	·	·	·	·	05	41	01	06	46	01	01		6
7	41	·	·	·	·	·	47	01	31	49	·	·		7
8	46	01	·	·	·	·	28	02	·	1·17	·	34		8
9	15	40	12	·	·	28	16	03	·	16	·	34		9
10	·	09	03	·	·	10	62	·	·	14	·	04		10
11	20	06	·	·	·	03	18	02	04	11	14	03		11
12	33	·	·	·	22	·	·	08	·	1·33	20	01		12
13	01	01	·	·	02	·	05	·	06	32	49	36		13
14	32	05	·	·	18	·	22	·	09	02	06	05		14
15	44	·	01	·	01	·	25	36	·	06	·	36		15
16	1·34	·	04	·	29	·	15	28	·	13	·08	18		16
17	·	01	·	·	40	·	14	14	14	72	·06	07		17
18	16	·	·	·	18	09	·	47	02	52	·33	·		18
19	·	·	·	·	·	·	·	38	06	·	·	13		19
20	19	·	·	·	·	·	·	06	08	·	46	06		20
21	09	·	09	·	·	·	·	01	01	·	03	02		21
22	·	01	·	02	·	28	·	·	·	·	34	03		22
23	02	·	·	·	23	56	·	·	·02	·	51	02		23
24	09	01	25	·	06	13	62	43	·06	·	29	01		24
25	45	48	06	·	·	06	15	02	·	·46	66	08		25
26	30	40	20	·	04	08	02	·	08	29	18	06		26
27	40	25	02	·	89	78	16	20	02	·	54	·		27
28	28	16	13	·	33	84	10	28	27	02	03	16		28
29	10	·	30	·	1·38	15	16	·	·	16	19	33		29
30	31	✕	·	·	11	16	02	-	33	·	26	14		30
31	31	✕	06	✕	45	✕	·	·	✕	62	✕	1·02		31
TOTAL	6·81	2·07	1·31	·62	4·97	4·83	5·00	4·55	1·88	11·39	5·40	6·09	Year's Total 55·12	✓
*Days with ·01 in. or more.	25	16	12	5	16	19	23	20	18	22	23	28	227	✓
*Days with .04 in. or more.	22	9	9	4	14	18	19	13	14	20	20	21	183	✓

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) Charles Busfield. [P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2858

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1939.

Kept at Kitcliffe

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 766 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	28	·	34	02	·	·	02	15	09	01	·	57		1
2	12	·	01	07	·	·	49	37	74	08	05	13		2
3	05	·	·	09	·	·	·	19	02	·	04	68		3
4	16	·	47	61	·	·	83	·	·	02	02	89		4
5	·	·	·	·	58	·	24	06	·	15	34	04		5
6	68	24	·	·	·	·	64	·	·	·	32	·		6
7	36	43	18	·	03	·	15	·	·	·	20	29		7
8	52	21	23	03	·	·	94	05	·	17	38	60		8
9	10	60	·	·	·	·	06	50	·	56	07	72		9
10	28	02	01	·	·	09	·	46	54	14	02	13		10
11	48	06	19	·	·	16	·	·	04	·	·	02		11
12	45	14	~~01~~	·	·	39	·	·	·	·	02	·		12
13	02	·	02	41	15	13	05	·	04	10	65	·		13
14	67	·	02	03	46	41	32	·	·	06	37	·		14
15	20	08	03	69	18	90	13	·	04	·	14	·		15
16	19	·	06	·	43	·	01	·	·	·	07	·		16
17	64	35	04	04	10	02	·	·	·	32	09	·		17
18	15	25	03	·	·	21	22	·	01	02	75	·		18
19	28	·	01	·	·	·	27	·	02	·	·	01		19
20	01	·	·	·	·	32	13	10	03	·	·	·		20
21	12	16	54	17	09	·	·	01	06	·	·	·		21
22	16	32	15	01	02	·	10	·	·	02	71	·		22
23	01	63	04	21	·	02	09	·	·	54	21	03		23
24	01	05	07	13	·	05	·	01	·	02	01	·		24
25	20	29	01	·	·	08	·	·	·	·	1·74	·		25
26	06	03	01	·	01	·	·	35	·	31	48	03		26
27	05	1·73	59	·	·	34	07	10	·	29	32	06		27
28	03	23	36	07	·	36	72	·	·	·	82	·		28
29	·	×	01	·	·	02	1·38	·	·	38	42	·		29
30	·	×	·	·	·	12	20	·	·	·	30	·		30
31	·	×	·	×	·	×	21	01	×	07	×	·		31
													Year's Total	
TOTAL	6·28	5·82	3·42	2·58	2·05	3·62	7·27	2·36	1·63	3·26	7·94	4·20	50·43	
* Days with .01 in. or more.	27	18	23	14	10	16	22	13	11	18	25	14	211	
* Days with .04 in. or more.	22	16	13	10	7	13	20	10	7	13	21	10	162	

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) Charles Brayfield

[P.T.O.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations

Station No. 2858

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19~~3~~40

Kept at Kitcliffe
in the County of Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 766 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	·	15	·	·17	·	·	·	·	·12	·	·46	·26		1
2	·	·	·	·24	·	·	·07	·	·	·	·64	·18		2
3	06	07	·	·15	·	·	·09	·	·	·08	·07	·24		3
4	·	09	·	·08	·	·	·05	·	·	·21	·36	·22		4
5	·	·	·	·	·15	·	·08	·	·	·69	·10	·48		5
6	06	26	·	·	·	·	·06	·	·	·84	·06	·13		6
7	12	22	·	·24	·16	·	·06	·30	·13	·04	-	·		7
8	·	·	·01	·06	·	·	·02	·02	·	·25	·04	·30		8
9	·	·	·20	·	·	·	·70	·37	·32	·47	1·30	·23		9
10	·	·	·03	·	·	·01	·35	·27	·01	·19	·55	·49		10
11	·	04	·07	·06	·	·04	·66	-	·	·	1·53	·		11
12	·	·	·73	·	·	·	·19	·03	·54	·	·43	·		12
13	·	05	·15	·02	·	·	·	·07	·46	·	·12	·		13
14	·	06	·01	·28	·16	·	·03	·12	·11	·	·08	·67		14
15	·	·	·06	·02	·08	·	·	·	·01	·01	·04	·06		15
16	02	04	·14	·10	·	·	·39	·	1·67	·50	·26	·07		16
17	·	·	·64	·01	·23	·	·30	·	·20	·	·65	·02		17
18	12	·15	·27	·67	·	·	·01	·30	·23	·	·02	·30		18
19	02	21	·22	·10	·	·	·48	·	·49	·01	·35	·01		19
20	·	01	·06	·31	·	·01	1·19	·43	·21	·16	·21	·		20
21	·	·	·34	·02	·	·36	·18	·02	·11	·11	1·02	·		21
22	·	06	·08	·	·08	·09	·	·05	·54	·02	-	·		22
23	·	27	·05	·09	·02	·	·10	·	·06	·04	·17	·01		23
24	·72	·	·	·05	·02	·	·	·	·	·01	·	·06		24
25	05	·	·	·	·01	·04	·	·	·	·09	·	·		25
26	61	12	·04	·03	·09	·07	·	·	·	·01	·02	·		26
27	* 09	46	·	·07	·	·	·56	·	·	-	·05	·		27
28	* 03	40	·	·	·07	·	·	·12	·	-	·	·02		28
29	·	·	·34	·	·04	·40	·02	·	·	·01	·	·66		29
30	* 03	✕	·	·20	·	·	–	·	·	·59	·01	·32		30
31	28	✕	·23	✕	·01	✕	–	·05	✕	·88	✕	·04		31
													Year's Total	
TOTAL	2·27	2·66	3·67	2·97	1·12	1·02	5·59	2·15	5·11	5·21	8·64	4·77	45·08	✓
* Days with .01 in. or more.	13	17	19	21	13	8	21	13	16	21	24	21	207	✓
* Days with .04 in. or more.	10	16	16	16	9	6	17	10	13	15	21	17	166	✓

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* ESTIMATED

† Spare column, no entries required.

(Signed) Charles [illegible]

* See Instruction 3 (f) on other side.

P.T.O.

2859

Section A for the entry c

AIR MINISTI

FOR OFFICIAL USE.

ORGANIZATION.

FORM 1090. **REGIS**

Kept at Cold G

in the County of La

Diameter of Funnel of Gauge

Height of top of Gauge above Grou

,, Ground ,, Sea

THE MORNING MEAS

An observer who does not conform t
year in the space on the right of t

Please read

llowing

Jan. 1, following.

—

2859

COLD GREAVE

1931 — 40

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Date	Jan.	Feb.	March								Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	11	03	.	13	.	23	.	.	05	14	.	.	1
2	01	09	.	76	05	1.03	.	.	1.17	07	07	04	2
3	.	.	.	08	.	15	43	.	48	01	1.23	62	3
4	.	07	.	34	.	.	20	.	1.80	12	65	41	4
5	.	09	.	.	23	1.12	01	46	14	.	.	38	5
6	.	32	01	.	.	32	92	04	15	67	26	.	6
7	.	.	03	.	.	73	.	33	.	34	05	19	7
8	08	37	05	07	07	.	35	74	01	09	36	.	8
9	.	1.03	04	32	.	10	01	33	03	04	34	04	9
10	14	13	05	.	30	35	.	27	06	.	33	.	10
11	56	79	.	03	.	09	10	03	29	.	68	.	11
12	04	20	.	02	.	02	48	.	21	30	31	.	12
13	.	.	18	.	07	01	10	02	.	.	.	.	13
14	20	13	.	01	06	75	02	1.10	02	.	46	01	14
15	31	39	.	14	18	01	07	48	.	.	02	07	15
16	72	13	.	34	53	52	10	78	30	.	.	.	16
17	14	22	.	25	04	11	38	56	04	.	02	.	17
18	38	02	.	45	.	52	50	14	.	.	82	.	18
19	17	28	.	10	.	.	01	1.25	03	03	.	01	19
20	04	18	01	05	.	06	.	19	.	.	13	.	20
21	50	06	08	.	10	11	02	30	.	.	03	.	21
22	20	11	.	01	13	08	01	.	.	.	.	.	22
23	48	.	01	23	12	35	46	.	.	.	98	25	23
24	11	47	.	06	67	.	10	.	.	.	02	08	24
25	13	1.12	.	36	08	.	07	.	.	.	08	11	25
26	05	20	.	27	.	.	.	.	.	.	55	03	26
27	51	11	.	02	09	.	34	.	.	26	1.03	12	27
28	35	30	.	10	18	.	23	.	02	.	.	09	28
29	34		.	02	17	.	18	.	.	74	04	.	29
30	01	✕	.	07	.	.	.	.	07	.	01	.	30
31	40	✕	.	✕	22	✕	03	.	✕	03	✕	06	31
													YEAR'S TOTAL
TOTAL	5.98	6.84	·46	4.23	3.29	6.66	5.12	7.02	4.87	2.84	8.47	2.51	58.29
Days with ·01 in. or more.	24	24	9	24	18	20	24	16	17	13	23	16	228
Days with ·04 in. or more.	22	22	5	18	18	17	17	14	12	10	18	13	186

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(Signed)

[P

2859

Section **A** for the entry c

FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Cold Greave

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 832 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following.

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	11	03	.	13	.	23	.	.	05	14	.	.	1
2	01	09	.	76	05	1·03	.	.	1·17	07	07	04	2
3	.	.	.	08	.	15	43	.	48	01	1·23	62	3
4	.	07	.	34	.	.	20	.	1·80	12	65	41	4
5	.	09	.	.	23	1·12	01	46	14	.	.	38	5
6	.	32	01	.	.	32	92	04	15	67	26	.	6
7	.	.	03	.	.	73	.	33	.	34	05	19	7
8	08	37	05	07	07	.	35	74	01	09	36	.	8
9	.	1·03	04	32	.	10	01	33	03	04	34	04	9
10	14	13	05	.	30	35	.	27	06	.	33	.	10
11	56	79	.	03	.	09	10	03	29	.	68	.	11
12	04	20	.	02	.	02	48	.	21	30	31	.	12
13	.	.	18	.	07	01	10	02	.	.	.	.	13
14	20	13	.	01	06	75	02	1·10	02	.	46	01	14
15	31	39	.	14	18	01	07	48	.	.	02	07	15
16	72	13	.	34	53	52	10	78	30	.	.	.	16
17	14	22	.	25	04	11	38	56	04	.	02	.	17
18	38	02	.	45	.	52	50	14	.	.	82	.	18
19	17	28	.	10	.	.	01	1·25	03	03	.	01	19
20	04	18	01	05	.	06	.	19	.	.	13	.	20
21	50	06	08	.	10	11	02	30	.	.	03	.	21
22	20	11	.	01	13	08	01	.	.	.	.	.	22
23	48	.	01	23	12	35	46	.	.	.	98	25	23
24	11	47	.	06	67	.	10	.	.	.	02	08	24
25	13	1·12	.	36	08	.	07	.	.	.	08	11	25
26	05	20	.	27	.	.	.	.	.	.	55	03	26
27	51	11	.	02	09	.	34	.	.	26	1·03	12	27
28	35	30	.	10	18	.	23	.	02	.	.	09	28
29	34		.	02	17	.	18	.	.	74	04	.	29
30	01	×	.	07	.	.	.	.	07	.	01	.	30
31	40	×	.	×	22	×	03	.	×	03	×	06	31
													YEAR'S TOTAL
TOTAL	5·98	6·84	·46	4·23	3·29	6·66	5·12	7·02	4·87	2·84	8·47	2·51	58·29
Days with ·01 in. or more.	24	24	9	24	18	20	24	16	17	13	23	16	228
Days with ·04 in. or more.	22	22	5	18	18	17	17	14	12	10	18	13	186

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(Signed) Chas. J. Bailey.

[P.T.O.

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Section **A** for the entry of Daily Observations. COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Cold Greave

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 832 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·50	01	·	53	24	·	34	03	73	50	18	01	1
2	1·14	·	·	·	69	·	01	04	1·32	18	21	46	2
3	12	·	·	·	·	·	30	·	11	·	·	11	3
4	05	01	·	04	·	·	06	·	01	06	24	01	4
5	1·19	·	14	28	06	·	·	02	13	·	·	02	5
6	1·31	·	24	44	03	·	·	·	29	·	·	·	6
7	21	·	60	14	·	·	·	·	73	15	01	·	7
8	·	·	·	15	·	·	·	·	15	85	01	·	8
9	17	20	·	71	09	·	·	·	01	·	·	08	9
10	55	06	01	12	01	·	·	·	70	47	·	14	10
11	03	10	01	10	53	32	1·61	·	15	01	03	·	11
12	48	·	·	·	65	04	09	04	01	57	03	·	12
13	·	07	·	13	19	·	20	02	40	52	04	26	13
14	05	·	·	04	·	·	0·5	01	01	09	22	·	14
15	·	·	·	05	47	·	·	·	·	19	25	13	15
16	33	·	·	24	01	·	12	01	·	20	01	17	16
17	·	·	·	·	·	·	10	07	03	55	·	·	17
18	·	·	·	·	08	·	·	·	02	·	02	·	18
19	·	01	·	18	27	·	·	·	·	42	·	·	19
20	·	·	·	27	48	·	08	64	·	18	07	·	20
21	03	·	25	04	36	·	04	62	·	72	08	03	21
22	02	·	19	19	24	·	11	·	·	07	90	14	22
23	·	03	·	04	60	·	10	·	·	08	11	08	23
24	05	·	·	03	01	02	39	·	32	·	14	01	24
25	·	05	·	09	15	01	04	01	09	95	22	·	25
26	·	01	·	19	29	·	44	·	07	28	25	01	26
27	·	·	38	22	49	10	22	·	·	08	09	18	27
28	·	·	27	08	16	·	20	·	·	·	·	08	28
29	07	·	65	10	08	10	32	36	20	1·04	16	33	29
30	·	✕	14	01	·	48	08	09	02	07	46	16	30
31	01	✕	19	✕	01	✕	15	·	✕	·	✕	11	31
TOTAL	6·31	·55	3·07	4·41	6·19	1·07	4·95	1·96	5·50	8·23	3·73	2·52	YEAR'S TOTAL 48·49
*Days with ·01 in. or more.	18	10	12	25	24	7	22	13	21	23	22	20	217
*Days with ·04 in. or more.	14	5	10	23	19	5	20	7	14	22	16	14	169

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*See Instruction 2 (*f*) on other side.

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Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Cold Greave

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 832 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·09	76	02	.	.	.	.	.	07	.	26	.	1
2	49	.	20	28	.	17	.	07	.	.	03	.	2
3	.	52	36	.	42	.	.	.	.	.	05	.	3
4	22	20	32	.	18	.	.	.	.	.	.	.	4
5	28	24	09	.	13	.	.	.	.	.	03	.	5
6	03	11	01	.	22	.	.	.	.	.	.	06	6
7	11	45	23	.	12	.	04	04	.	83	.	03	7
8	35	13	14	01	10	.	34	02	.	02	.	13	8
9	.	54	.	33	05	02	88	06	.	79	12	01	9
10	17	15	.	.	.	11	05	.	.	1·01	15	.	10
11	.	.	.	01	.	.	77	01	.	48	.	02	11
12	0·1	.	.	.	.	22	19	.	.	04	.	08	12
13	01	.	02	.	22	01	39	.	07	26	22	.	13
14	36	.	04	.	07	.	11	01	.	06	28	.	14
15	61	. .	03	.	.	.	02	13	.	18	75	01	15
16	24	02	23	01	05	35	.	.	.	15	10	.	16
17	08	.	1·78	02	.	48	.	25	10	.	34	.	17
18	.	12	32	.	04	65	.	03	.	.	11	.	18
19	.	01	66	02	.	11	04	.	05	.	07	02	19
20	.	17	.	.	.	01	.	30	08	.	.	01	20
21	.	01	.	.	.	09	.	34	18	.	.	01	21
22	.	.	.	.	.	67	.	09	.	10	.	.	22
23	.	04	.	36	04	.	.	04	09	02	.	.	23
24	.	40	.	19	12	66	.	.	89	.	01	.	24
25	.	54	.	19	.	.	.	.	82	.	01	04	25
26	.	1·03	.	75	.	.	.	.	.	26	06	.	26
27	.	01	.	01	02	.	.	.	02	.	.	.	27
28	.	.	.	14	.	.	10	.	01	20	.	.	28
29	.		.	02	.	.	14	.	.	08	.	07	29
30	04	X	06	02	22	.	24	.	.	27	.	20	30
31	4·0	X	07	X	.	X	31	14	X	15	X	.	31
TOTAL	3·49	5·45	4·58	2·36	2·00	3·55	3·62	1·53	2·38	4·90	2·59	·69	YEAR'S TOTAL 37 14
*Days with ·01 in. or more.	16	19	17	15	15	13	14	14	11	17	16	13	180
*Days with ·04 in. or more.	13	15	13	7	14	10	13	10	[illegible]	[illegible]	12	6	137

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*See Instruction 2 (*f*) on other side.

D

(Signed) Chas. J. Astley

[P.T.O.

COPY FOR OFFICIAL USE.

Section A for the entry of Daily Observations.

Station No. 2859

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Cold Greave

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 832 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	16	.	03	.	.	.	.	10	06	17	07	40		1
2	01	02	12	.	01	.	.	54	07	.	14	79		2
3	11	01	.	.	.	.	–	02	01	09	13	08		3
4	18	.	19	14	04	.	.	.	05	64	.	77		4
5	.	.	04	01	13	.	.	32	.	37	09	37		5
6	.	.	07	11	59	10	.	14	.	25	.	37		6
7	39	04	19	06	–	03	.	.	.	17	35	40		7
8	.	.	05	.	10	29	.	08	06	10	91	11		8
9	.	05	07	15	.	.	.	08	01	04	76	05		9
10	.	02	53	35	.	.	.	21	.	46	26	.		10
11	19	.	17	35	.	.	.	11	.	03	03	19		11
12	01	.	10	30	.	.	31	12	.	05	.	04		12
13	32	.	.	05	08	.	23	02	.	26	01	.		13
14	25	.	17	.	04	01	.	.	.	42	20	09		14
15	51	.	49	.	75	.	.	11	67	.	05	30		15
16	50	.	16	.	19	.	.	.	–	.	14	08		16
17	52	.	35	01	14	.	22	.	30	06	.	32		17
18	37	.	20	07	20	15	13	06	.	.	.	25		18
19	.	.	44	.	12	46	.	.	48	15	.	17		19
20	.	.	05	15	33	.	.	11	12	21	.	01		20
21	07	.	01	.	12	64	.	06	43	11	.	.		21
22	05	.	04	.	02	.	.	37	66	11	.	.		22
23	.	.	09	57	.	02	53	04	.	15	05	02		23
24	.	17	08	15	.	12	03	.	41	15	.	.		24
25	07	04	.	12	02	.	26	.	22	44	.	39		25
26	12	.	06	30	.	24	45	.	49	07	06	11		26
27	.	01	.	34	–	30	54	.	10	42	02	22		27
28	.	.	.	11	.	17	18	18	.	20	.	63		28
29	.	.	.	.	.	.	15	51	43	11	.	15		29
30	11	×	.	.	.	.	11	39	17	28	.	23		30
31	01	×	.	×	.	×	46	.	×	04	×	17		31
TOTAL	3·90	·36	3·70	3·34	3·28	2·53	3·60	3·57	4·34	5·55	3·27	6·71	Year's Total 44·15	
*Days with ·01 in. or more.	19	8	23	18	16	12	13	20	18	27	16	26	216	
*Days with ·04 in. or more	15	4	21	16	13	9	12	18	15	[illegible]	[illegible]	24	186	

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*See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) Chas. J. Stanley

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No 2859

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Cold Greave

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 832 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	52	34	04	03	.	.	07	.	13	1·04	17	18	1
2	02	11	.	.	.	22	02	.	09	26	06	37	2
3	09	66	11	04	.	02	50	—	65	01	27	14	3
4	.	01	02	.	.	33	10	.	36	17	.	01	4
5	.	57	21	20	.	86	05	.	15	09	21	26	5
6	03	01	01	06	.	54	.	.	.	.	.	.	6
7	02	.	.	13	.	40	.	.	.	35	28	30	7
8	01	.	.	13	.	.	.	.	.	28	02	38	8
9	01	.	.	44	.	11	.	.	.	2·00	17	.	9
10	.	06	01	45	.	05	.	.	.	55	12	.	10
11	48	18	.	.	.	14	.	.	.	31	14	13	11
12	.	15	.	.	.	83	.	.	08	.	.	.	12
13	12	08	.	14	39	.	.	.	06	13	01	.	13
14	.	.	.	50	14	18	.	.	11	01	1·20	19	14
15	.	1·62	.	43	07	.	.	.	58	21	23	39	15
16	.	37	14	34	02	27	21	01	59	02	48	.	16
17	.	05	.	51	61	21	03	01	39	04	66	.	17
18	02	02	.	14	06	16	30	.	50	56	08	.	18
19	.	12	.	42	.	32	29	.	.	12	25	.	19
20	02	89	.	30	.	23	24	.	.	.	82	.	20
21	.	25	01	02	.	.	.	01	75	16	28	15	21
22	.	20	11	05	.	.	.	.	06	.	01	.	22
23	.		95	36	.	.	.	56	03	28	.	.	23
24	42	64	02	.	.	.	.	.	1·52	05	.	17	24
25	13	13	42	.	.	45	.	.	.	.	05	06	25
26	.	.	.	.	.	.	07	1·21	51	56	22	23	26
27	.	06	.	.	.	10	41	.	45	92	48	17	27
28	04	14	.	.	02	.	.	21	15	49	14	02	28
29	.		04	.	.	.	.	.	14	61	11	19	29
30	06	✕	.	.	.	17	.	16	38	73	85	07	30
31	02	✕	02	✕	.	✕	.	.	✕	28	✕	28	31
TOTAL	2·01	6·66	2·11	4·69	1·31	5·59	2·29	2·17	7·68	10·23	7·31	3·69	YEAR'S TOTAL 55·74
*Days with ·01 in. or more.	16	22	14	19	7	19	12	7	21	26	25	19	207
*Days with ·04 in. or more.	8	19	8	17	5	18	10	4	20	23	22	17	171

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*See Instruction 2 (*f*) on other side.

(*Signed*)

P.T.O.

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Section **A** for the entry of Daily Observations. Station No. 2859

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Cold Greave

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 832 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	01	11	07	50	.	.	.	31	06	.	26	25		1
2	.	03	04	14	.	1·02	01	35	03	.	04	17		2
3	.	.	.	.	.	93	05	22	67	.	.	14		3
4	40	18	26	.	.	03	03	09	59	.	30	39		4
5	07	02	59	.	01	.	.	18	46	01	15	25		5
6	14	.	07	.	.	02	12	60	70	.	12	.		6
7	01	.	12	.	.	.	38	.	94	.	17	17		7
8	39	.	18	.	.	.	.	.	06	.	55	19		8
9	29	02	04	.	.	.	01	.	08	02	1·10	.		9
10	09	.	.	.	.	.	33	.		.	95	.		10
11	.	.	.	02	.	16	48	02	04	.	64	02		11
12	.	.	.	32	06	51	60	05	54	06	36	03		12
13	03	.	.	16	02	03	11	.	.	27	02	47		13
14	.	.	.	16	.	31	04	10	54	19	35	99		14
15	21	.	05	24	03	12	26	16	12	.	59	15		15
16	04	05	01	06	.	.	03	.	03	03	89	.		16
17	13	45	01	01	07	.	19	13	.	70	08	24		17
18	.	06	.	.	.	09	23	12	.	93	.	04		18
19	16	26	04	04	.	16	17	34	.	09	.	.		19
20	31	06	.		.	.	02	.	02	04	.	.		20
21	11	.	03	12	.	.	.		.	05	.	.		21
22	18	66	02	02	03	2·00	12	.	.	.	.	08		22
23	.	03	35	22	15	.	72	.	.	09	.	.		23
24	12	12	.	08	56	.	04	07	19	1·02	01	07		24
25	21	01	03	04	.	09	09	.	54	26	.	02		25
26	02	21	31	05	.	.	02	.	09	76	.	.		26
27	60	.	03	.	.	.	.	.	17	25	.	.		27
28	79	84	09	.	.	.	08	.	.	.	.	10		28
29	09	43	96	.	02	54	.	.	.	12	22	15		29
30	31	✕	02	.	86	02	27	.	.	86	08	05		30
31	04	✕	02	✕	.	✕	10	.	✕	.	✕	48		31
TOTAL	4·75	3·54	3·34	2·18	1·81	6·03	4·50	2·64	5·87	5·75	6·88	4·45	Year's Total 51·74	✓
* Days with .01 in. or more.	24	17	22	16	10	15	25	14	19	18	19	21	220	✓
* Days with .04 in. or more.	20	12	14	13	5	11	19	13	16	15	17	18	173	✓

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) Chas. J. Blakey. [P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2659

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

Kept at Cold Greave

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 832 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	10	21	14	.	.	.	03	.	48	.	.	15		1
2	32	41	18	16	.	.	01	.	01	01	.	19		2
3	.	20	05	05	04	70	02	.	.	.	.	04		3
4	25	07	08	16	11	.	05	05	.	.	.	45		4
5	1·30	.	22	.	.	.	01	.	.	.	.	12		5
6	07	.	03	11	08	.	.	55	02	01	07	14		6
7	07	50	.	50	06	07	.	.	09	.	01	09		7
8	.	50	.	06	.	13	06	.	.	.	03	09		8
9	02	25	01	04	23	01	39	47	.	.	.	04		9
10	03	10	.	.	06	02	01	01	.	01	.	34		10
11	.	.	90	.	13	.	03	.	.	.	.	04		11
12	14	36	17	01	10	05	08	03	20	.	.	15		12
13	.	11	02	01	05	86	.	06	03	01	.	20		13
14	.	10	14	.	.	.	.	23	15	01	.	18		14
15	23	48	.	35	.	.	46	.	13	.	.	04		15
16	16	61	10	26	04	.	.	22	08	.	.	03		16
17	04	05	41	07	.	11	.	01	35	.	.	.		17
18	60	29	27	12	.	.	.	30	19	.	61	.		18
19	16	33	03	23	.	17	09	05	.	.	90	.		19
20	07	15	.	12	60	08	.	.	.	.	.	03		20
21	03	05	05	08	.	.	49	(	.	.	.	20		21
22	01	.	25	05	03	.	25	.	.	47	21	18		22
23	02	.	01	.	25	.	25	.	.	80	28	.		23
24	05	29	16	.	03	.	06	.	19	10	.	02		24
25	07	42	.	.	.	.	.	06	.	09	.	01		25
26	.	34	07	.	52	.	.	14	11	-	.	06		26
27	.	60	.	12	.	.	.	.	.	84	.	04		27
28	.	63	.	.	.	07	.	.	.	14	.	.		28
29	04		.	.	62	01	.	.	.	05	17	03		29
30	09	X	.	.	.	31	.	21	.	15	70	06		30
31	30	X	.	X	.	X	.	05	X	12	X	.		31
TOTAL	4·17	7·05	3·29	2·50	2·35	2·59	2·29	2·44	2·03	2·81	2·98	2·92	Year's Total 37·42	✓
*Days with ·01 in. or more.	23	23	20	18	16	13	16	15	13	14	9	25	205	✓
*Days with .04 in. or more.	18	23	15	16	14	10	10	12	10	[illegible]	[illegible]	20	164	✓

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required

(*Signed*) Chas. J. Oakley.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2859

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1938.

Kept at Cold Greave

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 832 ft.

OLDHAM CORPORATION ENGINEER'S OFFICE
4 JAN 1939
PIETHORNE, NR. ROCHDALE
WATERWORKS

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	.	03	.	08	.	48	02	07	.	.	11	36		1
2	11	08	.	47	19	28	02	.	.	1.05	11	40		2
3	03	.	.	.	.	03	07	.	20	1.40	18	05		3
4	08	.	.	05	.	04	43	34	.	44	28	1.45		4
5	.	02	.	09	.	06	32	91	03	61	01	04		5
6	25	.	.	.	.	04	30	02	05	32	01	01		6
7	43	.	.	.	.	.	48	01	28	44	.	.		7
8	32	01	.	.	.	.	22	02	.	90	.	24		8
9	26	43	13	.	.	26	18	04	.	13	.	32		9
10	.	10	03	.	.	07	61	.	.	11	.	04		10
11	21	06	.	.	.	03	10	02	03	10	06	04		11
12	27	.	.	.	18	.	.	07	.	1.08	09	01		12
13	01	01	.	.	02	.	04	.	05	31	35	32		13
14	22	06	.	.	18	.	22	.	10	03	07	06		14
15	38	.	01	.	01	.	25	34	.	04	.	34		15
16	1.32	.	05	.	30	.	16	29	.	08	06	10		16
17	.	01	.	.	33	.	13	10	15	68	05	04		17
18	15	.	.	.	19	11	.	49	01	40	·22	.		18
19	.	.	.	.	.	.	.	36	04	.	.	10		19
20	21	.	.	.	.	.	.	06	07	.	41	10		20
21	10	.	08	.	.	.	.	01	01	.	05	06		21
22	.	01	.	02	.	28	.	.	.	.	22	06		22
23	02	.	.	.	21	52	.	.	·02	.	54	03		23
24	09	01	26	.	07	14	45	38	·06	.	25	01		24
25	46	45	06	.	.	06	14	03	.	46	80	08		25
26	29	37	18	.	03	05	04	.	09	28	21	06		26
27	44	28	02	.	79	59	14	17	02	.	56	.		27
28	32	17	10	.	21	78	07	30	28	03	03	14		28
29	09		17	.	1.06	07	14	.	.	11	14	35		29
30	34	X	.	.	09	13	02	.	32	.	25	16		30
31	32	X	04	X	33	X	.	.	X	32	X	96		31
TOTAL	6·71	2·10	1·13	·71	4·19	4·02	4·55	4·03	1·81	9·35	5·09	6·05	Year's Total 49·45	
*Days with ·01 in. or more.	25	16	12	5	16	19	23	20	18	22	24	28	228	
*Days with .04 in. or more.	22	9	9	4	13	17	20	14	12	20	21	24	185	

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) Charles Bucfield

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2859

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1939.

Kept at Cold Greave

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 832 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	34	·	34	03	·	·	03	16	11	02	·	68		1
2	14	·	01	09	·	·	·51	36	70	08	08	12		2
3	02	·	·	09	·	·	·	22	04	·	05	65		3
4	29	·	44	81	·	·	75	–	·	03	03	92		4
5	·	·	·	·	46	·	21	06	·	18	31	05		5
6	59	20	·	·	·	·	57	·	·	·	30	·		6
7	38	44	18	·	04	·	11	·	·	·	20	27		7
8	55	23	25	02	·	·	93	05	·	16	39	62		8
9	10	67	·	·	·	·	06	37	·	57	07	73		9
10	26	02	01	·	·	10	·	60	59	14	02	13		10
11	69	06	22	·	·	17	·	·	05	·	·	03		11
12	48	14	·	·	·	25	·	·	·	·	02	·		12
13	04	·	02	39	16	13	05	·	04	11	05	·		13
14	67	·	02	05	50	40	19	·	·	08	36	·		14
15	22	09	03	74	20	87	13	·	05	·	13	·		15
16	19	·	06	·	49	·	02	·	·	·	07	·		16
17	72	36	07	04	13	03	·	·	·	36	09	·		17
18	19	26	03	·	·	20	29	·	01	02	82	·		18
19	25	·	01	·	·	·	29	·	03	·	·	02		19
20	01	·	·	·	·	28	14	11	04	·	·	·		20
21	11	11	55	18	11	·	·	02	08	·	·	·		21
22	14	31	14	01	02	·	11	·	·	03	66	·		22
23	02	76	05	21	·	02	12	·	·	55	23	02		23
24	01	04	05	14	·	09	·	01	·	02	01	·		24
25	52	31	02	·	·	08	·	·	·	·	1·81	02		25
26	08	03	02	·	01	·	·	35	·	33	49	02		26
27	06	1·71	67	·	·	24	08	12	·	33	33	07		27
28	03	23	46	08	·	44	67	·	·	·	82	·		28
29	·	×	01	·	·	02	1·38	·	·	45	44	·		29
30	·	×	·	·	·	13	21	·	·	·	31	·		30
31	·	×	·	×	·	×	19	01	×	10	×	·		31
TOTAL	7·10	5·97	3·66	2·88	2·12	3·45	7·04	2·44	1·74	3·56	8·09	4·35	Year's Total 52·40	
*Days with ·01 in. or more.	27	18	23	14	10	16	22	13	11	18	25	15	212	
*Days with ·04 in. or more.	22	16	13	11	8	13	20	10	9	13	21	10	166	

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) [illegible] Busfield

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2859

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19~~3~~40

Kept at Cold Greave

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 832 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·	10	·	·15	·	·	·	·	·	·	·43	·30		1
2	·	·	·	·25	·	·	·08	·	·	·	·61	·21		2
3	04	08	·	·16	·	·	·09	·	·	·09	·04	·24		3
4	·	12	·	·08	·	·	·05	·	·	·21	·30	·24		4
5	·	·	·	·	·15	·	·08	·	·	·68	·12	·56		5
6	06	26	·	·	·	·	·06	·	·	·94	·04	·10		6
7	13	28	·	·24	·15	·	·08	·31	·16	·03	·	·		7
8	01	·	·01	11	·	·	·	·03	·	·22	·04	·30		8
9	·	·	·21	·	·	·	·68	·35	·33	·46	1·24	·21		9
10	·	·	03	·	·	·01	·36	·34	·02	19	·58	·66		10
11	·	04	·04	·06	·	·03	·52	·	·	·	1·59	·		11
12	·	·	·44	·	·	·	·19	·03	·58	·	·45	·		12
13	·	06	·43	·02	·	·	·	·08	·44	·	·10	·		13
14	·	05	·03	·28	·21	·	·02	·14	·11	·	·08	·60		14
15	·	·	·06	·02	·08	·	·	·	·01	·	·05	04		15
16	15	03	·12	·11	·	·	·40	·	1·69	·59	·29	·04		16
17	·	·	·64	·	·26	·	·29	·	·18	·	·64	·01		17
18	12	14	·26	·83	·	·	·02	·35	·23	·	·04	·30		18
19	01	22	·22	·06	·	·	·42	·	·44	·05	·35	·03		19
20	·	01	·06	·33	·	·02	1·10	·44	·21	·24	·23	·		20
21	01	·	·35	·03	·	·38	·15	·04	·14	·02	1·22	·		21
22	·	04	·09	·	·09	·09	·	·06	·53	·05	·	·02		22
23	·	29	·05	·09	·01	·	·09	·	·05	·06	·19	·01		23
24	68	·	·	·05	·02	·	·	·	·01	·02	·	·06		24
25	06	·	·	·	·	·04	·	·	·	·11	·	·		25
26	64	12	·05	·02	·18	·05	·	·	·	·01	·03	·		26
27	x 08	46	·	·18	·	·	·43	·	·	-	·05	·		27
28	x 06	43	·	·	·06	·	·	·12	·	·	·	·02		28
29	·	·	·28	·01	·08	·42	·02	·	·	·01	·	·41		29
30	02	✕	·	·28	·	·	-	·	·	·54	·	·32		30
31	24	✕	·22	✕	·01	✕	-	·08	✕	·84	✕	·11		31
TOTAL	2·34	3·12	3·95	3·36	1·30	1·04	5·43	2·40	5·13	5·45	8·80	5·15	Year's Total 44·50	
* Days with .01 in. or more.	15	14	19	21	12	8	20	13	16	20	23	22	206	
* Days with .04 in. or more.	11	15	16	16	9	5	14	11	13	15	22	14	164	

† Spare column, no entries required.

(Signed) Charles Bridfield

* See Instruction 3 (f) on other side.

[P.T.O.

2860

Section **A** for the entry
AIR MINISTR… …L ORGANIZATION.

FORM 1090. **REGIS**… …L.

Kept at Roch Mills Sewa…

in the County of Lancas… …,C.E., …or,

Diameter of Funnel of Gauge…

Height of top of Gauge above Grou… …le.

,, Ground ,, Sea

THE MORNING MEAS… …:

An observer who does not conform … *following*
year in the space on the right of

Please read

Jan. 1, following.

2860

ROCHDALE, ROCH MILLS S.W.

1931 —— 40

780502

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·10	·	-	·07	·	·01	·	·	·03	·10	·	·	1
2	·01	·08	·	·79	·03	1·12	·	·	·80	·03	·07	·08	2
3	·	-	-	·10	·	·02	·33	·	·25	·	1·76	·45	3
4	·	·05	-	·34	·	·	·09	·	·83	·03	·04	·41	4
5	·	·10	·	·	·18	1·02	·12	1·05	·05	·	·	·36	5
6	·	·17	·01	·	·05	·24	·30	·01	·20	·61	·27	·	6
7	·	·01	·	·	·	·58	·	·17	·	·33	·10	·16	7
8	·10	·29	·01	·15	·03	·	·25	·28	·11	·04	·15	·02	8
9	·01	·85	·	·21	·	·05	·	·49	·01	·03	·12	·06	9
10	·09	·20	·01	·	·23	·33	·	·05	·20	·	·34	·	10
11	·62	·83	·	·07	·	·05	·13	·01	·45	·	·78	·	11
12	·05	·35	:	·02	·	-	·99	·	·09	·27	·10	·	12
13	·	·	·15	·	·08	·01	·30	·06	·	·	·	·	13
14	·18	·15	·	·01	·02	1·34	·38	·73	·03	·	·47	·01	14
15	·25	·43	·	·16	·16	·01	·05	·49	·	·	·01	·02	15
16	·53	·13	·	·41	·28	·32	·09	·82	·29	·		·	16
17	·02	·08	·	·15	·04	·10	·43	·42	·04	·	·12	·	17
18	·45	-	·	·11	·	·67	·55	·10	·	·	·94	·	18
19	·13	·25	·	·02	·	·	·05	1·38	·	·01	·	·	19
20	·01	·12	·03	·	·	·08	-	·12	·	·	·12	·	20
21	·55	·02	·06	·	·10	·13	·02	·15	·	·	·04	·	21
22	·26	·13	·	·02	·16	·05	·01	·	·	·	·05	·	22
23	·37	·	·	·21	·36	·27	·40	·	·	·	·90	·32	23
24	·05	·47	·	·05	·60	·	·05	·	·	·	·03	·05	24
25	·12	1·38	·	·15	·03	·	·04	·	·	·	·07	·10	25
26	·02	·07	·	·30	·	·	·	·	·	·	·54	·03	26
27	·52	·10	·	·02	·12	·	·40	·	·	·32	1·20	·06	27
28	·66	·26	·	·06	·08	·	·38	·	·02	·	·	·10	28
29	·17	·	·	·01	·24	·	·15	·	·	·82	·03	·	29
30	·	×	·	·02	·	·	·	·	·07	·	·01	·	30
31	·50	×	·	×	·	×	·08	·	×	·02	×	·10	31
TOTAL	5·77	6·52	·27	3·45	2·79	6·40	5·59	6·33	3·47	2·61	8·26	2·33	YEAR'S TOTAL 53·79
Days with ·01 in. or more.	24	23	6	23	18	19	23	16	16	12	24	16	220
Days with ·04 in. or more.	19	21	2	16	14	15	21	14	12	7	20	12	173

40-9999

(Signed) ……………… Borough Surveyor.

[P.T.O.

Section **A** for the entry

2860

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931 .

Kept at Roch Mills Sewage Works, Rochdale.
in the County of Lancaster.
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft 1 in.
,, Ground ,, Sea Level 363 ft.

S.H.Morgan, M.Inst.C.E.,
Borough Surveyor,
Town Hall,
Rochdale.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following.

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·10	·	-	·07	-	·01	·	·	·03	·10	·	·	1
2	·01	·08	·	·79	·03	1·12	·	·	·80	·03	·07	·08	2
3	·	-	-	·10	·	·02	·33	·	·25	·	1·76	·45	3
4	·	·05	-	·34	·	·	·09	·	·83	·03	·04	·41	4
5	·	·10	·	·	·18	1·02	·12	1·05	·05	·	·	·36	5
6	·	·17	·01	·	·05	·24	·30	·01	·20	·61	·27	·	6
7	·	·01	·	·	·	·58	·	·17	·	·33	·10	·16	7
8	·10	·29	·01	·15	·03	·	·25	·28	·11	·04	·15	·02	8
9	·01	·85	·	·21	·	·05	·	·49	·01	·03	·12	·06	9
10	·09	·20	·01	·	·23	·33	·	·05	·20	·	·34	·	10
11	·62	·83	·	·07	·	·05	·13	·01	·45	·	·78	·	11
12	·05	·35	:	·02	·	-	·99	·	·09	·27	·10	·	12
13	·	·	·15	·	·08	·01	·30	·06	·	·	·	·	13
14	·18	·15	·	·01	·02	1·34	·38	·73	·03	·	·47	·01	14
15	·25	·43	·	·16	·16	·01	·05	·49	·	·	·01	·02	15
16	·53	·13	·	·41	·28	·32	·09	·82	·29	·	·	·	16
17	·02	·08	·	·15	·04	·10	·43	·42	·04	·	·12	·	17
18	·45	-	·	·11	·	·67	·55	·10	·	·	·94	·	18
19	·13	·25	·	·02	·	·	·05	1·38	-	·01	·	-	19
20	·01	·12	·03	·	·	·08	-	·12	-	·	·12	·	20
21	·55	·02	·06	·	·10	·13	·02	·15	·	·	·04	·	21
22	·26	·13	-	·02	·16	·05	·01	·	·	·	·05	·	22
23	·37	·	·	·21	·36	·27	·40	·	·	·	·90	·32	23
24	·05	·47	·	·05	·60	·	·05	·	·	·	·03	·05	24
25	·12	1·38	·	·15	·03	·	·04	·	·	·	·07	·10	25
26	·02	·07	·	·30	··	·	·	·	·	·	·54	·03	26
27	·52	·10	·	·02	·12	·	·40	·	·	·32	1·20	·06	27
28	·66	·26	·	·06	·08	·	·38	·	·02	·	·	·10	28
29	·17	·	·	·01	·24	·	·15	·	·	·82	·03	·	29
30	·	✕	·	·02	·	·	·	·	·07	·	·01	·	30
31	·50	✕	·	✕	·	✕	·08	·	✕	·02	✕	·10	31
TOTAL	5·77	6·52	·27	3·45	2·79	6·40	5·59	6·33	3·47	2·61	8·26	2·33	YEAR'S TOTAL 53·79
Days with ·01 in. or more.	24	23	6	23	18	19	23	16	16	12	24	16	220
Days with ·04 in. or more.	19	21	2	16	14	15	21	14	12	7	20	12	173

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(Signed) .... Borough Surveyor. [P.T.O.

2860

Section **A** for the entry of Daily Observations. COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Roch Mills Sewage Works, Rochdale.

in the County of Lancaster.

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 1 in.

,, Ground ,, Sea Level 363 ft.

S.H.Morgan, M.Inst.C.E.,
Borough Surveyor,
Town Hall,
Rochdale.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·43	·03	·	·45	·12	·	·10	·05	·71	·31	·16	·10	1
2	·94	·	·	·	·10	·	·01	·02	·99	·19	·12	·33	2
3	·05	·	·	·	·	·	·25	·01	·07	·	·05	·07	3
4	·05	·01	·	·	·	·	·21	·	·05	·06	·10	·02	4
5	1·02	·	·12	·25	·08	·	·02	·01	·15	·	·	·01	5
6	1·21	·	·20	·36	·01	·	·	·	·30	·	·	·	6
7	·20	·	·55	·23	·	·	·	·	·72	·40	·	·	7
8	· ·	·	·	·15	·	·	·	·	·10	·72	·	·	8
9	·06	·09	·	·46	·05	·	·	·	·02	·	·	·03	9
10	·52	·03	·	·04	·	·	·	·	·65	·40	·01	·	10
11	·03	·02	·	·03	·57	·02	·43	·	·07	·	·	·	11
12	·40	·	·	·	·48	·02	·23	·06	·02	·45	·	·	12
13	·	·02	·	·10	·11	·	·35	·14	·39	·33	·	·22	13
14	·05	·	·	·03	·	·	·10	·13	·01	·13	·03	·05	14
15	·	·	·	·01	·62	·	·	·	·	·16	·10	·05	15
16	·21	·	·	·03	·	·	·02	·01	·	·25	·01	·10	16
17	·	·	·	·	·	·	·15	·07	·03	·36	·	·	17
18	·	·	·	·	·05	·	·	·	·	·02	·01	·	18
19	·	·	·	·18	·04	·	·01	·	·	·40	·	·	19
20	·	·	·	·25	·53	·	·06	·32	·	·12	·06	·01	20
21	·04	·	·28	·03	·26	·	·05	·35	·	·57	·10	·01	21
22	·01	·	·20	·20	·20	·	·05	·	·	·10	·93	·10	22
23	·	·	·	·02	·42	·	·18	·	·	·09	·02	·05	23
24	·05	·	·	·02	·02	·02	·60	·	·23	·05	·12	·01	24
25	·	·01	·	·10	·02	·01	·03	·	·10	·99	·21	·01	25
26	·	·	·	·11	·25	·	·47	·	·08	·39	·20	·	26
27	·	·	·38	·25	·42	·15	·17	·	·	·01	·05	·10	27
28	·	·	·10	·10	·16	·	·29	·	·	·	·01	·09	28
29	·	·	·59	·28	·04	·12	·20	·40	·12	·85	·15	·42	29
30	·	×	·12	·02	·01	·40	·10	·04	·03	·05	·33	·15	30
31	·	×	·12	×	·01	×	·18	·01	×	·01	×	·06	31
TOTAL	5·27	·21	2·66	3·70	4·57	·74	4·26	1·62	4·84	7·41	2·77	1·99	YEAR'S TOTAL 40·04
*Days with ·01 in. or more.	16	7	10	24	23	7	24	14	20	25	20	21	211
*Days with ·04 in. or more.	14	1	10	16	18	3	19	9	15	22	14	14	155

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*See Instruction 2 (*f*) on other side.

(*Signed*) S.H.Morgan

P.T.O.

COPY FOR OFFICIAL USE.

Section A for the entry of Daily Observations. Station No. 2860

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Roch Mills Sewage Works, Rochdale.

in the County of Lancaster.

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 1 in.

,, Ground ,, Sea Level 363 ft.

S.H.Morgan, M.Inst.C.E.,
Borough Surveyor,
Town Hall,
Rochdale.

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Jan. 1, following

Please read the Notes and Instructions Overleaf.

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·05	·56	·01	-	-	·	·	·03	·05		·26	·	1
2	·45	·	·20	·38	-	·18	·	·07	·	·	·	·	2
3	·01	·55	·33	-	·49	·	·	·	·	·	·02	·	3
4	·17	·12	·25	-	·19	·	·	·01	·	·	·	·	4
5	·25	·15	·06	-	·10	·	·	·	·	·	·05	·	5
6	·05	·17	·15	·	·18	·	·	·	·	·	·01	·05	6
7	·07	·35	·01	·	·07	·	·34	·05	·	·75	·	·	7
8	·32	·14	·13	·	·05	·05	·28	·03	·	·	·	·06	8
9	·	·34	·	·24	·05	·	1·02	·03	-	·67	·15	·	9
10	·15	·	·	·	·	·02	·02	·	·	1·25	·20	·	10
11	·	·	·	·01	·	·	·76	·01	·	·25	·	·04	11
12	·02	·	·	·	·	·20	·21	·	·	·11	·	·05	12
13	·	·	·02	·	·20	·	·30	·01	·	·17	·25	·	13
14	·27	·	·05	·	·	·	·05	·05	·	·02	·31	·	14
15	·29	·	·03	·	·	·01	·01	·05	·	·24	·26	·	15
16	·05	·02	·20	·	·03	·25	·15	·01	-	·25	·03	·	16
17	·02	·01	·77	·06	·	·54	·	·35	·06	·	·05	·	17
18	·03	·04	·25	·	·05	·40	·	·05	-	·	·02	·	18
19	·	·01	·44	·01	·	·02	·	·01	·64	·	·15	·03	19
20	·	·10	·02	·	·01	·59	·	·41	·01	·	·	-	20
21	·	·01	·	·	·	·01	·	·20	·20	·	·	·	21
22	·	·	·	·	·	·	·	·12	·	·10	·	·	22
23	·	·	·	·35	·08	·02	·	·04	·03	·07	·	·01	23
24	·	·06	·	·20	·11	·27	·	·	·68	·01	-	·	24
25	·	·20	·	·15	·	·	·	·	·11	·	·	·10	25
26	·	·40	·	·58	·		·	·	·	·41	·01	·01	26
27	·	·	·	·	·02	·	·	·	-	·01	·	·	27
28	·	·	·	·03	·	·	·10	·	·	·24	·	·	28
29	·		·	·05	-	·	·05	·	·	·01	·	·07	29
30	·05	×	·03	·05	·07	·	·25	·	-	·27	-	·22	30
31	·35	×	·08	×	-	×	·18	·15	×	·24	×	·	31
TOTAL	2·60	3·23	3·03	2·11	1·70	2·56	3·72	1·68	1·78	5·02	1·77	·64	YEAR'S TOTAL 29·84
*Days with ·01 in. or more.	17	17	18	12	15	13	14	19	8	18	14	10	175
*Days with .04 in. or more.	13	13	12	9	12	8	12	11	6	14	9	7	126

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*See Instruction 2 (*f*) on other side.

(Signed) SHMorgan

P.T.O.

2860

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. ~~743051/27~~

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Roch Mills Sewage Works, Rochdale.
in the County of Lancaster.
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft 1 in.
,, Ground ,, Sea Level 363 ft.

S.H.Morgan, M.Inst.C.E.,
Borough Surveyor,
Town Hall,
Rochdale.

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Jan. 1, following

Please read the Notes and Instructions Overleaf.

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·15	·	·	·	·	·	·	·05	·14	·05	·07	·44	1
2	·01	·03	·10	–	·06	·	·	·38	·07	·	·24	·50	2
3	·10	·	·	·	·	·	·	·09	·08	·14	·05	·07	3
4	·15	·	·11	·03	·06	·	·	·	·04	·70	·	1·02	4
5	·	·	·06	·	·08	·	·	·59	·03	·25	·03	·15	5
6	·01	·	·05	·09	·45	·05	·	·05	·	·26	·	·40	6
7	·35	·03	·10	·04	·	·02	·	·	·	·05	·42	·42	7
8	·	·	·02	·	·09	·75	·	·08	·01	·12	·63	·04	8
9	·	·03	·07	·	·	·	·	·10	·	·01	·16	·02	9
10	·	·	·25	·03	·	·	·	·12	·	·25	·05	·	10
11	·12	·	·01	·51	·	·	·	·32	·	·01	·03	·16	11
12	·01	·	·	·10	·	·	·04	·03	·	·09	·	·05	12
13	·56	·	·	·05	·05	·	·10	·03	·	·19	·	·01	13
14	·38	·	·13	·	·07	·01	·	·	·	·62	·05	·10	14
15	·43	·	·27	·	·60	·	·01	·08	·21	·01	·01	·30	15
16	·57	·	·14	·	·10	·	·	·	·	·01	·02	·02	16
17	·38	·	·34	·01	·17	·	·27	·	·30	·04	·	·27	17
18	·25	·02	·18	·20	·62	·23	·	·03	·	·	·	·21	18
19	·	·	·22	·	·08	·32	·	·01	·40	·20	·	·06	19
20	·	·	·01	·13	·36	·05	·	·05	·14	·14	·01	·	20
21	·05	·	·03	·	·01	·48	·	·03	·10	·08	·	·	21
22	·05	·	·01	·	·	·	·	·20	·52	·11	·02	·	22
23	·01	·01	·10	·44	·	·	·60	·03	·	·20	·05	·05	23
24	·	·24	·02	·11	·	·10	·	·	·37	·20	·	·	24
25	·10	·10	·	·10	·03	·	·15	·	·26	·25	·	·43	25
26	·12	·	·02	·22	·	·15	·20	·	·22	·05	·02	·17	26
27	·	·	·	·08	·	·42	·28	·	·05	·29	·02	·37	27
28	·	·	·	·02	·	·10	·06	·30	·	·25	·	·62	28
29	·	·	·	·	·	·	·12	·48	·44	·15	·	·10	29
30	·05	×	·	·	·	·	·10	·74	·15	·22	·	·08	30
31	·	×	·	×	·	×	·25	·	×	·01	×	·15	31
													YEAR'S TOTAL
TOTAL	3·85	·46	2·24	2·16	2·83	2·68	2·18	3·79	3·53	4·95	1·88	6·21	36·76
*Days with ·01 in. or more.	20	7	21	16	15	12	12	21	18	29	17	26	214
*Days with ·04 in. or more.	16	2	14	12	13	10	11	15	16	24	9	23	165

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*See Instruction 2 (*f*) on other side.

(Signed) SHMorgan

[P.T.O.

File No 743051/27

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Section **A** for the entry of Daily Observations. Station No. 2860

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935..

Kept at Roch Mills Sewage Works, Rochdale

in the County of Lancaster.

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 1 in.

,, Ground ,, Sea Level 363 ft.

S. H. Morgan, M. Inst. C.E.

Borough Surveyor,

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·42	·22	·01	·06	-	·02	·06	·	·15	1·07	·15	·23		1
2	·01	·10	·03	·	-	·35	·01	·	·10	·21	·04	·23		2
3	·05	·63	·11	·10	-	·08	·37	·01	·41	·04	·09	·21		3
4	·	·01	·08	·02	-	·09	·03	·	·49	·44	·	·01		4
5	·	·46	·15	·16	-	·56	·01	·	·18	·05	·26	·33		5
6	·	·	·	·09	-	·40	·	·	·	··	·	·		6
7	·01	·	·	·15	-	·51	·	·	·	·31	·10	·30		7
8	·	·	·	·12	-	·	·	·	·	·28	·10	·43		8
9	·01	·	·	·45	-	·05	·	·	·	1·72	·08	·		9
10	·	·05	·	·19	-	·01	·	·	·	·38	·22	·		10
11	·33	·10	·	·	-	·20	·	·	·	·30	·10	·01		11
12	·01	·15	·	·	-	·80	·	·	·04	·	·04	·		12
13	·15	·05	·	·11	·22	·	·	·	·12	·10	·03	·		13
14	·	·	·	·07	·05	·10	·	·	·09	·	1·42	·27		14
15	·	1·51	·	·35	·08	·	·	·	·35	·15	·05	·27		15
16	·	·20	·12	·30	·05	·40	·20	·	·67	·	·18	·		16
17	·	·02	·	·43	·52	·21	·23	·01	·21	·04	·32	·		17
18	·	·03	·	·12	·07	·10	·22	·	·44	·25	·15	·		18
19	·	·03	·	·16	·01	·34	·22	·	·	·10	·17	·		19
20	·	·37	·	·38	-	·15	·13	·	·	·	·04	·		20
21	·	·16	·01	·02	-	·	·	·	·76	·15	·05	·18		21
22	·01	·08	·05	·06	-	·	·	·	·05	·	·	·		22
23	·03	·	·83	·01	-	·		·40	·05	·32	·	·		23
24	·25	·38	·05	·03	-	·		·	1·42	·05	·	·10		24
25	·15	·01	·15	·	-	·14	·	·	·	·	·06	·03		25
26		·	·	·	-	·	·05	1·05	·50	·18	·12	·28		26
27	·	·06	·	·	-	·06	·23	·	·33	·71	·46	·07		27
28	·05	·05	·	·	·04	·	·	·	·07	·29	·03	·01		28
29	·01	X	·04	·	-	·	·	·08	·30	·35	·10	·20		29
30	·09	X	·	·	-	·19	·	·20	·29	·44	·70	·06		30
31	·05	X	·01	X	-	X	·	·	X	·23	X	·34		31
													Year's Total.	
TOTAL	1·63	4·67	1·64	3·38	1·04	4·76	1·76	1·75	7·02	8·16	5·06	3·56	44·43	
* Days with .01 in. or more.	16	21	13	21	8	20	12	6	21	24	25	19	206	
* Days with .04 in. or more.	9	16	9	17	7	18	9	4	21	24	23	15	172	

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* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*)

[P.T.O.

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Section **A** for the entry of Daily Observations.

Station No. 2860.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

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Diameter of Funnel of Gauge 8 in.

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,, Ground ,, Sea Level 363 ft.

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·01	·03	·03	·15	-	·02	·	·41	·10	·	·20	·21		1
2	·01	·03	·01	·03	·	·27	·05	·05	-	·	·04	·10		2
3	·01	-	·	·	·	·25	·05	·14	·80	·	·	·05		3
4	·42	·22	·22	·	·	·	·02	·03	·55	·	·25	·27		4
5	·06	·05	·57	·	·01	·	·01	·30	·32	·01	·20	·37		5
6	·08	·	·03	·	·	·02	·05	·35	·82	·	·15	·		6
7	·	·	·18	·	·	·	·12	·	·48	·	·15	·33		7
8	·42	·	·20	·	·	·	·	·	·03	·	·70	·10		8
9	·25	·	·03	·	·	·	·02	·	·08	·01	·89	·		9
10	·08	·	·	·	·	·	·76	·	·	·	·75	·		10
11	·	·	·	·02	·	·17	·36	·06	·05	·	·41	·05		11
12	·	·	·	·08	·05	·75	·55	·01	·47	·10	·12	·02		12
13	·02	·	·	·04	·02	·01	·10	·	·	·30	·02	·45		13
14	·	·	·	·05	·	·30	·10	·10	·70	·10	·26	·58		14
15	·15	·	·01	·11	·01	·11	·05	·49	·07	·	·44	·10		15
16	·	·10	·01	·05	·01	·	·03	·	·	·01	·75	·01		16
17	·12	·32	·03	·02	·	·	·15	·19	·	·45	·05	·20		17
18	·	·05	·	·01	·	·18	·26	·11	·	·82	·	·		18
19	·15	·29	·04	·04	·	·09	·10	·31	·	·06	·	·		19
20	·21	·10	·	·01	·	·	·03	·	·	·02	·	·		20
21	·11	·	·	·04	·	·04	·	·	·	·04	·	·		21
22	·15	·30	·07	·	·02	·88	·30	·	·	-	·	·04		22
23	·	·03	·15	·26	·02	·	·60	·02	·	·05	·	·01		23
24	·05	·02	·	·05	·21	·	·	·01	·10	·70	·	·05		24
25	·42	·	·	·02	·	·	·10	·	·25	·27	·	·02		25
26	·05	·20	·05	·04	·	·	·04	·	·18	·65	·	·01		26
27	1·00	·02	·03	·	·	·	·	·	·21	·40	·	·		27
28	·17	·35	·13	·	·	·	·08	·	·	·	·05	·10		28
29	·10	·16	·70	·	·57	·70	·	·	·	·12	·10	·08		29
30	·32	✕	·01	·	·64	·01	·30	·	·	·47	·05	·05		30
31	·05	✕	·04	✕	·02	✕	·03	·02	✕	·	✕	·40		31
TOTAL	4·41	2·27	2·54	1·02	1·58	3·80	4·26	2·60	5·21	4·58	5·58	3·60	Year's Total 41·45	✓
* Days with .01 in. or more	24	16	20	17	11	15	25	16	16	18	19	23	220	✓
* Days with .04 in. or more	20	11	11	11	4	11	19	11	15	14	18	18	163	✓

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) S H Morgan
Borough Surveyor

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations
Station No. 2860

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937.

Kept at Roch Mills Sewage Works, Rochdale.

in the County of Lancaster.

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 1 in.

,, Ground ,, Sea Level 363 ft.

S. H. Morgan M. Inst. C.E.
Borough Surveyor,
Town Hall,
Rochdale.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·05	·19	·07	-	·	·01	·01	·	·48	·	-	·24		1
2	·18	·30	·12	·10	·	·01	·04	·	·03	·	·	·05		2
3	-	·13	·10	·07	·10	·65	·10	·	·	·	·	-		3
4	·25	·	·05	·10	·15	·	·01	·	·	·	·	·41		4
5	1·15	·	·01	·01	·	·01	·02	·	·01	·	·	·05		5
6	·04	·	·	·10	·10	·	·	·60	·03	·	·	·04		6
7	·03	·15	·	·37	·05	·05	·	·	·05	·	·	·		7
8	·	·54	·	·03	·	·10	·25	·01	·	·	·05	·06		8
9	·02	·15	·	·05	·25	·	·26	·39	·	·	·	-		9
10	·01	·15	·	·	·	·25	·	·01	·	·01	-	·30		10
11	·	·	·16	·	·03	·	·03	·	·	·	·	·01		11
12	·07	·45	·04	·	·03	·06	·05	·05	·25	·	·	·25		12
13	·	·20	·04	·	·	·30	·	·15	·	·	-	·21		13
14	·	·10	·05	·	·	·	·	·17	·10	·	·	·08		14
15	·38	·45	·	·40	·	·	·48	·	·24	·	·	·01		15
16	·05	·45	·12	·34	·12	·01	·	·12	·18	·	·	·		16
17	·05	·08	·35	·12	·02	·01	·	·01	·12	·	·	·		17
18	·28	·28	·20	·10	·	·	·	·25	·05	·	·25	·		18
19	·08	·25	·05	·14	·05	·06	·04	·01	·	·	·55	-		19
20	·10	·20	-	·10	·47	·10	·03	·	·	·	·	·29		20
21	·01	·05	·02	·10	·03	·	·33	·	·	·10	·	·20		21
22	·05	-	·12	·02	·04	·	·13	·	-	·40	·09	·14		22
23	·12	-	·03	·	·53	·	·24	·	·	·37	·06	·		23
24	·10	·17	·10	·	·06	·	·04	·	·10	·22	·	·05		24
25	·02	·32	·	·	·	·	·	·15	·08	·05	·	·05		25
26	·	·32	·05	·	·47	-	·	·	·01	·	·	·12		26
27	·	·45	·	·10	·	·	·	·	·	·25	·	·05		27
28	·	·05	·	· ·	·	·06	·	·	·	·15	·	·		28
29	·01		·	·	·	·01	·	-	-	·03	·17	-		29
30	·04	✕	·	·	· ·	·25	·	·06	·	·15	·65	·02		30
31	·18	✕	·	✕	·01	✕	·	·08	✕	·20	✕	·		31
TOTAL	3·27	5·43	1·68	2·25	2·51	1·94	2·06	2·06	1·73	1·93	1·82	2·63	Year's Total 29·31	✓
* Days with .01 in. or more.	23	22	18	17	17	16	16	14	14	11	7	20	195	✓
* Days with .04 in. or more.	17	22	15	14	12	10	11	10	10	9	7	17	154	✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) .... [P.T.O.

Borough Surveyor.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2860

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

BOROUGH SURVEYOR'S OFFICE
3 JAN 1939
ROCHDALE

FORM 1090

REGISTER OF RAINFALL IN 1938

Kept at Roch Mills Sewage Works, Rochdale.

in the County of Lancaster

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 1 in.

,, Ground ,, Sea Level 363 ft.

S. H. Morgan M.Inst.C.E.,
Borough Surveyor,
Town Hall,
Rochdale.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

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Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·	·01	·	·01	—	·52	·14	·08	·	·07	·20	·32		1
2	·05	·02	·	·39	·05	·45	·02	·	·	1·18	·20	·40		2
3	·01	·	-	-	-	·04	·05	·	·20	1·45	·18	·05		3
4	·01	·	·	·05	-	·02	·35	·75	·	·30	·20	·99		4
5	·02	·02	·	·01	·	·04	·30	·02	·10	·70	·	·05		5
6	·20	·	·	·	-	·05	·40	·	·15	·40	·	·03		6
7	·25	·	·	·	·	·	·48	·03	·20	·46	·	·		7
8	·47	·02	·	·	·	-	·25	·	·	1·02	·	·30		8
9	·10	·42	·08	·	·	·30	·13	·02	·	·11	·	·30		9
10	·01	·05	·03	·	·	·08	·62	·	·	·10	·	·03		10
11	·20	·05	-	·	·05	·02	·15	·05	·03	·13	·10	·09		11
12	·28	·	·	·	·18	·	-	·08	·	1·31	·25	·		12
13	·04	·01	·	-	·04	·	·09	-	·05	·18	·29	·30		13
14	·35	·02	·	·	·14	·	·15	·	·05	·02	·06	:		14
15	·26	·	·02	·	·	·	·35	·33	·	·06	–	·30		15
16	·78	·	·03	·	·15	·	·13	·20	·	·05	·10	·15		16
17	·	·	·	·	·60	·	·14	·17	·08	·55	·05	·02		17
18	·10	·	·	·	·08	·03	·	·35	·01	·47	·30	·		18
19	·	·	·	·	·	·	·	·37	·06	·	·	·07		19
20	·25	·	·01	·	·	·	·	·10	·05	·	·46	·02		20
21	·	·	·05	·	-	·	·	·04	·02	·	·05	-		21
22	·	·	·	·01	·	·24	·	·	·	·	·45	·01		22
23	·	·	·	·	·20	·50	·	·	·10	·	·48	-		23
24	·26	·10	·23	·	·05	·10	·10	·50	·02	·01	·22	·01		24
25	·08	·42	·05	·	·02	·07	·60	·10	·	·51	·73	·01		25
26	·23	·46	·20	·	·10	·18	·01	·04	·05	·37	·21	·15		26
27	·40	·20	·01	·	·50	·88	·23	·25	·05	·01	·50	-		27
28	·14	·10	·10	·	·16	·78	·12	·15	·05	·03	·02	·10		28
29	·09	✕	·10	·	1·10	·18	·20	·	·	·16	·10	·38		29
30	·25	✕	·	·	·11	·17	·02	·	·35	·01	·22	·10		30
31	·20	✕	·03	✕	·36	✕	·	·	✕	·53	✕	1·02		31
													Year's Total	
TOTAL	5·03	1·90	·94	·47	3·89	4·65	5·03	3·63	1·62	10·19	5·37	5·20	47·92 ✓	
* Days with .01 in. or more.	25	14	13	5	17	19	23	19	18	26	22	24	225 ✓	
* Days with .04 in. or more.	21	8	7	2	16	16	20	16	14	21	21	17	179 ✓	

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) S.H. Morgan
Borough Surveyor.

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2860

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939.

Kept at Roch Mills Sewage Works, Rochdale.
in the County of Lancaster.
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft. 1 in.
,, Ground ,, Sea Level 363 ft.

S. H. Morgan, M.Inst.C.E.,
Borough Surveyor,
Town Hall, Rochdale.

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Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·30	·	·23	·05	–	–	·04	·17	·43	·01	–	·43		1
2	·10	·	·01	·12	–	–	·44	·64	·83	–	·05	·12		2
3	·05	·	·	·05	–	–	–	·16	·04	–	·05	·45		3
4	·09	·	·44	·12	·01	–	·52	–	–	·05	·02	·83		4
5	·	·	·	–	·35	–	·15	·04	–	·21	·38	·05		5
6	·85	·35	·01	–	–	–	·45	·01	–	–	·20	–		6
7	·27	·33	·15	–	·38	–	·10	·01	–	–	·10	–		7
8	·35	·10	·20	·03	–	–	·55	·12	–	·18	·15	·60		8
9	·10	·65	·	–	–	–	·03	·45	–	·38	·10	·52		9
10	·06	·02	·03	–	–	·20	–	·15	·53	·20	·03	·12		10
11	·40	·06	·25	–	–	·10	–	–	·03	–	–	·01		11
12	·38	·16	·	–	–	·08	–	–	·01	·02	·01	–		12
13	·01	·	·	·27	·10	·18	·05	–	·05	·04	–	–		13
14	·64	·	·	·02	·45	·50	·45	–	–	–	·25	–		14
15	·18	·05	·01	·69	·05	1·26	·21	–	–	–	·20	–		15
16	·10	–	·05	·02	·25	–	·04	–	–	–	·10	–		16
17	·82	·28	·	·03	·05	·04	·07	–	–	·05	·10	–		17
18	·05	·19	·04	–	–	·10	·31	–	–	–	·78	–		18
19	·25	·	·	–	–	·01	·18	–	–	–	·03	–		19
20	·05	·	·	–	–	·08	·07	·10	–	–	–	–		20
21	·10	·10	·55	·13	·15	–	–	·25	·03	–	–	–		21
22	·07	·20	·20	·03	–	–	·17	–	–	·03	·92	–		22
23	·	·47	·	·25	–	·02	·07	–	–	·50	·23	·04		23
24	·02	·15	·01	·02	–	–	–	–	–	·04	·02	–		24
25	·16	·21	·01	–	–	·03	·02	–	–	–	1·65	–		25
26	·03	·02	·02	–	–	–	–	1·45	–	·25	·43	·03		26
27	·03	1·65	·20	–	–	·58	·10	·05	–	·05	·35	·07		27
28	·03	·20	·10	–	–	·20	·64	–	–	–	·94	–		28
29	–	–	·01	·01	–	–	1·47	–	–	·17	·30	–		29
30	–	✕	·	–	–	·06	·16	–	–	–	·35	–		30
31	–	✕	·	✕	–	✕	·23	–	✕	–	✕	–		31
													Year's Total	
TOTAL	5·49	5·19	2·52	1·84	1·79	3·44	6·82	3·90	1·95	2·18	7·74	3·57	46·43	
* Days with .01 in. or more.	26	18	19	15	9	15	24	13	8	15	25	12	199	
* Days with .04 in. or more.	21	16	11	8	8	12	22	11	5	12	20	10	156	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) S. H. Morgan
Boro Surveyor

[P.T.O.

Section **A** for the entry of Daily Observations

Station No. 2860

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19340.

Kept at Roch Mills Sewage Works, Rochdale.

in the County of Lancaster.

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 1 in.

„ Ground „ Sea Level 363 ft.

S.H. Morgan, M.Inst.C.E.,
Borough Surveyor,
Town Hall, Rochdale.

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	-	.04	-	.25	-	-	-	-	-	-	.60	.35		1
2	-	-	-	.22	-	-	.10	-	-	-	.60	.30		2
3	-	.26	-	.20	-	-	.15	-	-	.10	.05	.18		3
4	-	.10	-	.10	-	-	.10	-	-	.13	.28	.39		4
5	-	-	-	-	.20	-	.15	-	-	.70	.04	.69		5
6	.10	.20	-	-	-	-	.04	-	-	.67	.02	.12		6
7	.12	.18	-	.25	.12	-	.01	.08	.12	.03	-	-		7
8	.01	-	.01	.10	-	-	.01	.03	-	.25	.05	.45		8
9	-	-	.22	-	-	-	1.00	.20	.35	.53	1.62	.25		9
10	-	-	.03	-	-	-	.48	.20	-	.25	.50	.88		10
11	-	.02	.10	.05	-	.04	.04	-	-	-	1.70	.02		11
12	-	-	.55	-	-	-	.08	.05	.55	.01	.43	-		12
13	-	.01	.09	.01	-	-	-	.10	.53	-	.08	-		13
14	-	.04	.05	.01	.05	-	.35	.05	.24	--	.15	.75		14
15	-	-	.02	.34	.16	.04	-	-	.05	.01	.07	.05		15
16	.03	-	.19	.18	-	-	.77	-	1.74	.37	.07	-		16
17	-	-	.70	.04	.16	-	.45	-	.15	-	.55	.05		17
18	.04	.15	.25	.48	-	-	.01	.38	.22	-	-	.29		18
19	-	.30	.25	.01	-	-	.35	-	.40	.01	.35	-		19
20	-	.02	.05	.25	-	-	.93	.48	.25	.17	.30	-		20
21	-	-	.28	.03	-	.38	.23	.03	-	-	.50	-		21
22	-	.02	.10	-	.14	.05	-	.05	.52	.05	-	-		22
23	-	.22	.03	.20	.01	-	.11	-	.10	-	.26	-		23
24	.75	-	.10	.02	-	-	-	-	.05	-	-	.05		24
25	.05	-	-	-	.01	.05	.01	-	-	-	-	-		25
26	.15	.10	.10	-	.01	.08	.02	-	-	.03	.05	-		26
27	.62	.55	-	.80	.05	-	.10	-	-	-	-	-		27
28	.20	.35	-	-	.10	-	-	.20	-	-	-	.04		28
29	.02	-	.39	.01	-	.36	-	-	-	.03	-	.70		29
30	-	X	-	.05	-	-	-	-	-	.43	.03	.20		30
31	.02	X	.20	X	.03	X	-	-	X	1.05	X	-		31
TOTAL	2.11	2.56	3.71	3.60	1.04	1.00	5.49	1.85	5.27	4.82	8.30	5.76	Year's Total 45.51	
* Days with .01 in. or more.	12	16	20	21	12	7	22	12	14	18	22	18	194	
* Days with .04 in. or more.	8	12	16	15	8	7	17	10	14	12	20	17	156	

1.06

† Spare column, no entries required

* See Instruction 3 (f) on other side.

(*Signed*) S.H. Morgan
Borough Surveyor

[P.T.O.

2861

Section **A** **for the entry**

AIR MINIST

FORM 1090.

REGI

Kept at Roc

in the County of Lan

Diameter of Funnel of Gauge

Height of top of Gauge above Gro

,, Ground ,, Sea

THE MORNING MEA

An observer who does not conform
year in the space on the right of

2861

ROCHDALE, BROADFIELD PARK

1931 —— 40

780502

COPY FOR OFFICIAL USE.

L ORGANIZATION.

PUBLIC HEALTH DEPARTMENT ROCHDALE

following

Jan. 1, following

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.							in.	in.	in.	
1	.06	.	.	.12	.	.05	.	.	.04	.08	.03	.	1
2	.01	.09	.	.65	.02	.99	.27	.	.72	.02	.	.15	2
3	.	.	.	.05	.	.	trace	.	.23	.03	.10	.38	3
4	.	.03	.	.34	.	.	.07	.01	.85	.05	1.28	.44	4
5	.	.12	.	.	.17	.90	.09	.55	.01	.	.03	.38	5
6	.	.27	.01	.	.02	.17	.31	trace	.20	.60	.25	.01	6
7	.	.05	.03	.	.	.51	.	.28	.	.33	.12	.18	7
8	.07	.26	.01	.16	.03	trace	.24	.15	.13	.03	.11	trace	8
9	trace	.89	.	.22		.04	.	.50	.02	.04	.29	.04	9
10	.14	.20	.	.	.23	.29	.	.05	.10	.	.28	trace	10
11	.32	.58	.	.06	.	.05	.11	.01	.48	.	.66	"	11
12	.05	.53	.	.02	.	.	1.02	trace	.	.28	.11	.	12
13	.	.	.17	.	.07	.01	.57	.07	.	.	.	.	13
14	.19	.16	trace	.	.02	1.02	.04	.49	.02	.	.42	.02	14
15	.39	.45	.	.16	.20	trace	.04	.50	.	.	trace	.03	15
16	.69	.12	.	.48	.27	.32	.04	.71	.30	.	.	.	16
17	.04	.05	.	.17	.02	.06	.36	.42	.07	.	.12	.	17
18	.39	trace	.	.07	.	.70	.46	.12	.03	.	.85	.	18
19	.21	.30	.	.01	.	.	trace	1.22	.01	.03	.	.	19
20	trace	.14	.10	.	.	.09	"	.01			.13	.	20
21	.53	.05	.04	trace	.11	.08	.01	.14	.	.	.04	.	21
22	.23	.09	.	.07	.18	.09	.03	trace	.	.	.06	.	22
23	.36	.	.	.19	.31	.23	.41	.	.	.	.92	.30	23
24	.10	.31	.	.02	.51	.	.04	.	.	.	.03	.07	24
25	.12	.59	.	.23	.04	.	.10	.	.	.	.08	.12	25
26	.02	.02	.	.13	.	.	.	.	.	.	.53	.03	26
27	.50	.02	.	.02	.08	.	.32	.	.	.28	1.21	.08	27
28	.47	.28	.	.06	.05	.	.06	.	.05	.	.	.12	28
29	.15	.	.	.01	.27	.	.10	.	.	.82	.03	.	29
30	.	×	.	.02	.	.	.	.	.05	.	.02	.	30
31	.61	×	.	×	trace	×	.06	.	×	.	×	.11	31
TOTAL	5.65	5.60	.36	3.26	2.60	5.60	4.75	5.23	3.31	2.59	7.70	2.46	YEAR'S TOTAL 49.11
*Days with ·01 in. or more.	22	23	6	22	18	17	22	16	17	12	24	16	215
*Days with ·04 in. or more.	20	20	3	16	13	16	20	13	12	8	19	12	172

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*See Instruction 2 (*f*) on other side.

(Signed)

MEDICAL OFFICER OF HEALTH.

[P.T.O.

2861

Section **A** for the entry of Daily Observations. **COPY FOR OFFICIAL USE.**

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

PUBLIC HEALTH DEPARTMENT ROCHDALE

Kept at Rochdale

in the County of Lancaster

Diameter of Funnel of Gauge 8" in.

Height of top of Gauge above Ground ft. 8 in.

,, Ground ,, Sea Level 472 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	**Jan.**	**Feb.**	**March**	**April**	**May**	**June**	**July**	**August**	**Sept.**	**Oct.**	**Nov.**	**Dec.**	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·06	·	·	·12	·	·05	·	·	·04	·08	·03	·	1
2	·01	·09	·	·65	·02	·99	·27	·	·72	·02	·	·15	2
3	·	·	·	·05	·	·	trace	·	·23	·03	·10	·38	3
4	·	·03	·	·34	·	·	·07	·01	·85	·05	1·28	·44	4
5	·	·12	·	·	·17	·90	·09	·55	·01	·	·03	·38	5
6	·	·27	·01	·	·02	·17	·31	trace	·20	·60	·25	·01	6
7	·	·05	·03	·	·	·51	·	·28	·	·33	·12	·18	7
8	·07	·26	·01	·16	·03	trace	·24	·15	·13	·03	·11	trace	8
9	trace	·89	·	·22	·	·04	·	·50	·02	·04	·29	·04	9
10	·14	·20	·	·	·23	·29	·	·05	·10	·	·28	trace	10
11	·32	·58	·	·06	·	·05	·11	·01	·48	·	·66	"	11
12	·05	·53	·	·02	·	·	1·02	trace	·	·28	·11	·	12
13	·	·	·17	·	·07	·01	·57	·07	·	·	·	·	13
14	·19	·16	trace	·	·02	1·02	·04	·49	·02	·	·42	·02	14
15	·39	·45	·	·16	·20	Trace	·04	·50	·	·	trace	·03	15
16	·69	·12	·	·48	·27	·32	·04	·71	·30	·	·	·	16
17	·04	·05	·	·17	·02	·06	·36	·42	·07	·	·12	·	17
18	·39	trace	·	·07	·	·70	·46	·12	·03	·	·85	·	18
19	·21	·30	·	·01	·	·	Trace	1·22	·01	·03	·	·	19
20	trace	·14	·10	·	·	·09	"	·01			·13	·	20
21	·53	·05	·04	trace	·11	·08	·01	·14	·	·	·04	·	21
22	·23	·09	·	·07	·18	·09	·03	trace	·	·	·06	·	22
23	·36	·	·	·19	·31	·23	·41	·	·	·	·92	·30	23
24	·10	·31	·	·02	·51	·	·04	·	·	·	·03	·07	24
25	·12	·59	·	·23	·04	·	·10	·	·	·	·08	·12	25
26	·02	·02	·	·13	·	·	·	·	·		·53	·03	26
27	·50	·02	·	·02	·08	·	·32	·	·	·28	1·21	·08	27
28	·47	·28	·	·06	·05		·06	·	·05	·	·	·12	28
29	·15	·	·	·01	·27	·	·10	·	·	·82	·03	·	29
30	·	×	·	·02	·		·	·	·05	·	·02		30
31	·61	×	·	×	trace	×	·06	·	×	·	×	·11	31
TOTAL	5·65	5·60	·36	3·26	2·60	5·60	4·75	5·23	3·31	2·59	7·70	2·46	YEAR'S TOTAL 49·11
*Days with ·01 in. or more.	22	23	6	22	18	17	22	16	17	12	24	16	215
*Days with ·04 in. or more.	20	20	3	16	13	16	20	13	12	8	19	12	172

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*See Instruction 2 (*f*) on other side.

(Signed) Andrew Topping

MEDICAL OFFICER OF HEALTH.

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2861

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

PUBLIC HEALTH DEPARTMENT ROCHDALE

Kept at Rochdale

in the County of Lancaster

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground ft 8 in.

,, Ground ,, Sea Level 472 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·58	·01		·46	·18		·09	·04	·98	·29	·15	·10	1
2	1·05			Trace	·08		·01	·04	1·12	·07	·15	·19	2
3	·03				Trace		·25		·12		·07	·12	3
4	·06	Trace					·17		·30	·07	·07	·03	4
5	1·11		·14	·28	·03		·02	·01	·20		Trace	·01	5
6	1·17		·19	·40	·03				·27	Trace			6
7	·27		·39	·22					·71	·40	Trace		7
8	·01	Trace		·13					·09	·57			8
9	·11	·10		·40	·06				·08			·04	9
10	·57	·04	·01 s	·05					·65	·33	·02	·01	10
11	·03	·02	Trace	·04	·59	·06	·46	Trace	·01		Trace		11
12	·40				·43	·01	·32	·03	·02	·43	Trace		12
13		·02		·13	·11		·17	·10	·29	·39	Trace	·22	13
14	·05			·03			·04	·06	·02	·09	·03	·07	14
15				·02	·48					·16	·06	·04	15
16	·17			·02	Trace		·09	·01		·14	Trace	·05	16
17					Trace		·11	·06	·06	·28			17
18					·09		Trace		·02	Trace	·02		18
19				·21	·08		·01		·01	·38		Trace	19
20				·26	·48		·07	·31		·15	·08	·01	20
21	·05		·33	·03	·23		·07	·34		·54	·13	·03	21
22	·02		·10	·19	·18		·06			·14	·63	·09	22
23		·01		·07	·32		·17			·04	·04	·05	23
24	·06	Trace		·04	·04	·05	·62		·23	·02	·12	·03	24
25		·02		·14	·07	Trace	·04		·10	1·04	·30		25
26	·02			·10	·31		·40		·06	·32	·18	·01	26
27			·38	·16	·31	·23	·24			·04	·03	·12	27
28			·10	·12	·17		·34					·10	28
29	·08		·56	·22	·04	·12	·19	·29	·12	·72	·15	·37	29
30		✕	·14	·03		·48	·10	·04	·21	·07	·25	·01	30
31	·01	✕	·10	✕	·03	✕	·20	·05	✕	·02	✕	·07	31
TOTAL	5·85	0·22	2·44	3·75	4·35	0·90	4·24	1·38	5·38	6·70	2·48	1·77	YEAR'S TOTAL 39·46
*Days with ·01 in. or more.	20	7	11	24	22	6	24	13	22	24	18	22	213
*Days with ·04 in. or more.	13	2	10	20	19	5	21	10	16	22	14	15	167

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*See Instruction 2 (f) on other side.

(Signed) John Innes

Medical Officer of Health

P.T.O.

Travelling Form.

COPY FOR OFFICIAL USE.

Section **A** **for the entry of Daily Observations.**

Station No. 2861

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Rochdale (Broadfield Pk. Obsy)

in the County of Lancashire

Diameter of Funnel of Gauge .... in.

Height of top of Gauge above Ground .... ft .... in.

,, Ground ,, Sea Level .... ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·12	·36	·02	–	–	–	·	·06	·03	·	·15		1
2	·50	·	·98	·26	·42	·22	·	·04	·	·			2
3	·01	·44	·35	Trace	·49	·	·	·	·	·	·03		3
4	·22	·10	·21	·	·18	·	·	·08	·	Trace	·01		4
5	·25	·16	·05	·	·07	·	·	·	·	·	·04		5
6	·62	·16	·15	·	·26	·	·	·	·	Trace	·01	·05	6
7	·16	·34	·02	·07	·05	·	·55	·03	·	·83			7
8	·24	·13	·15	·18	·06	Trace	·25	·08	·	·	·01	·06	8
9	·01	·33	·	·07	·04	·	·98	·	·	·52	·13		9
10	·16	·03	·	·	·	·01	·05	·	·	1·30	·14		10
11	Trace	Trace	·	·01	·	·	·79	trace	·	·33	·01	·02	11
12	·02		·	·	·	·17	·24	·	·	·07	·		12
13	Trace	·01	·03	·	·19	·	·25	trace	·	·14	·22		13
14	·30		·04	·	·03	·	·05	·04	·	·02	·27		14
15	·18		·04	·		·03	·02	·06	·	·24	·20		15
16	·06	·04	·18	·03	·03	·26	·03	·01		·24	·02		16
17	·04	·02	·64	·05	·	·77	·	·31	·05	·	·09		17
18	·03	·06	·28		·06	·43	·	·05	·	·	·04	Trace	18
19	·	Trace	·36	·02	·	·02	·	·16	·31	·	·06	·04	19
20	·	·13	·01		·	·05	·	·22	Trace	·		trace	20
21	·	Trace	·		·	·01	·	·18	·16	Trace			21
22	·	·	·	·02	·08	·03	·	·10	·	·07			22
23	·	·01	·	·30	·02	·02	·	·02	·04	·06			23
24	·	·14	·	·17	·08	·26	·	·	·20	·		trace	24
25	·	·18	·	·09	·01	·	·	·	·03	·	Trace	·08	25
26	·	·45	·	·45		·	·	·	·	·33		·01	26
27	·	Trace	·		Trace	·	·	·	·	·01			27
28	·	·	·	·08	·	·	·08	Trace	·	·17			28
29	·	×	·	·06	·	·	·06	·	·	·02		·07	29
30	·04	×	·05	·03	·12	·01	·23	·	·	·25		·25	30
31	·51	×	·06	×	·	×	·20	·18	×	·20	×		31
TOTAL	2·87	3·09	2·82	1·89	1·77	2·29	3·78	1·62	1·32	4·80	1·43	·58	YEAR'S TOTAL 28·26
*Days with ·01 in. or more.	18	18	18	16	16	13	14	16	7	17	16	8	177
*Days with ·04 in. or more.	13	14	14	11	12	7	12	13	5	14	10	6	131

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*See Instruction 2 (*f*) on other side,

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(*Signed*) John Jones M.D.

P.T.O.

Section **A** for the entry of Daily Observations. COPY FOR OFFICIAL USE. Station No. 2861

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 109

REGISTER OF RAINFALL IN 1933.

Kept at Rochdale Broadfield Pk. Obsy.

in the County of S. Lancashire 3

Diameter of Funnel of Gauge..........in.

Height of top of Gauge above Ground..........ft..........in.

,, Ground ,, Sea Level..........ft.

Dup

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1								.06	.03		.15			1
2				26		.22		.04						2
3					.49						.03			3
4					18			.08			01			4
5					.07						04			5
6					.26						.01	.05		6
7				.07	.05		.55	.03		.83				7
8				18	.06		.25	.08			.01	.06		8
9				07	.04		.98			.52	.13			9
10						.01	.05			1.30	.14			10
11				01			.79			.33	.01	.02		11
12						.17	24			.07				12
13					.19		.25			14	.22			13
14					.03		.05	.04		.02	27			14
15						03	.02	06		.24	.20			15
16				03	.03	.26	.03	.01		24	.02			16
17				.05		.77		31	.05		.09			17
18					.06	.43		05			04			18
19				.02		.02		.16	.31		.06	.04		19
20								.22						20
21								.18	.16					21
22				.02	.08	.03		.10		.07				22
23				30	.02	.02		.02	.04	.06				23
24				.17	.08	.26			.70					24
25				09	.01				.03			08		25
26				.45						33		.01		26
27										.01				27
28				.08			.08			.17				28
29				.06			.06			02		07		29
30		×		.03	.12	01	23			.25		25		30
31		×		×		×	.20	18	×	20	×			31
TOTAL				1.89	1.77	2.23	3.78	1.62	1.32	4.80	1.43	.58	Year's Total	
*Days with ·01 in. or more.														
*Days with .04 in. or more.														

† Spare column, no entries required.

(*Signed*)..........

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*See Instruction 2 (*f*) on other side.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2861

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 10

REGISTER OF RAINFALL IN 1934. M07

Kept at Rochdale, Broadfield Pk. Obsy.
in the County of S. Lancashire
Diameter of Funnel of Gauge .... in.
Height of top of Gauge above Ground .... ft .... in.
,, Ground ,, Sea Level .... ft.

TL

5 DEC 1934
95
FILE No. 10

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·16	Trace	Trace	·	·	·	·	·04	·05	·02	·06	·49	1
2	·02	·04	·12	·	·05	·	·	·33	·11	Trace	·22	·48	2
3	·10	·01	·01	·	·	·	·	·08	·07	·08	·04	·09	3
4	·20	·	·14	·04	·08	·	·	·01	·04	·78	–	·87	4
5	trace	·	·07	·	·06	·	·	·44	Trace	·24	·04	·14	5
6	·01	·	·06	·08	·50	·04	·	·02	·	·23	–	·30	6
7	·35	·05	·12	·04	·	·02	·	·	·	·05	·43	·39	7
8	trace	·01	·03	Trace	·07	·47	·	·07	·02	·17	·54	·03	8
9	·	·07	·14	·01	·	·	·	·14	·	·02	·13	·03	9
10	·		·17	·04	·	·	·	·18	·02	·34	·04	·01	10
11	·09	·	·02	·50	·	·	·	·27	·	·02	·03	·15	11
12	·01	Trace	·02	·08	·	·	·02	Trace	·	·07	–	·04	12
13	·41	·	·01	·06	·03	·	·07	·03	·	·21	·02	·02	13
14	·26	·	·12	Trace	·03	Trace	·	·	·	·48	·05	·10	14
15	·50	Trace	·30	·	·56	·	·	·07	·30	·01	·01	·33	15
16	·61	·	·14	·	·08	·	·		·	trace	·02	·03	16
17	·28	·	·33	·02	·16	·	·22	·	·37	·05	–	·23	17
18	·32	·	·23	·19	·54	·25	·	·02		–	–	·19	18
19	·	Trace	·14	·	·06	·15	·	·01	·34	·17	–	·04	19
20	·01	·	·01	·13	·30	·12	·	·05	·10	·14	·01	Trace	20
21	·05	·	·04	·	·01	·29	·	·05	·21	·07	·	·	21
22	·06	·	·01	·	·	·	·	·20	·43	·10	·01	·02	22
23	·02	·	·11	·36	·	·02	·57	·	·04	·21	·04	·05	23
24	·	·18	·03	·14	Trace	·04		·	·33	·20	–	Trace	24
25	·09	·12	Trace	·08	·02	·	·21	·	·25	·26	–	·34	25
26	·13	·	·03	·22	·	·15	·16	·	·24	·07	·04	·14	26
27	·	Trace	Trace	·09	·	·44	·26	·	·05	·37	·03	·37	27
28	·	Trace	–	·03	·	·06	·05	·50	·09	·26	Trace	·52	28
29	·		–	·	·	·	·09	·19	·35	·07	–	·11	29
30	·05	×	–	·	·	·	·06	·49	·23	·19	–	·05	30
31	·	×	–	×	·	×	·22	·	×	·04	×	·29	31
TOTAL	3·73	·48	2·40	2·11	2·55	2·05	1·93	3·19	3·64	4·92	1·76	5·85	YEAR'S TOTAL 34·61
*Days with ·01 in. or more.	21	7	24	17	15	12	11	20	20	28	18	28	221
*Days with ·04 in. or more.	16	5	15	14	11	10	10	15	18	24	11	22	171

40-9999
*See Instruction 2 (*f*) on other side

M

(Signed) John Jones

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations. Station No. 2861

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Rochdale Broadfield Park Obsy.

in the County of S. Lancashire

Diameter of Funnel of Gauge .... in.

Height of top of Gauge above Ground .... ft .... in.

,, Ground ,, Sea Level .... ft.

To: MO7
WITH
RECEIVED 2 FEB 1935
INITIALS IF RELEVANT FILL IN

7 MAR 1935

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	·26	·15	·02	·05		·02	·04	·	·	·47	·14	STR ·20		1
2	·01	·30	·05	·		·29	Trace	Trace	·09	·16	·05	·36		2
3	·06	·34	·10	·05		·06	·37	·	·39	·02	·08	STR ·18		3
4		·01	·09	Trace		·10	·05	·	·33	·31	-	STR ·03		4
5	Trace	·42	·10	·20		·47	Trace	-	·17	·03	·21	·25		5
6	·02	·01	Trace	·05		·39	·	-	Trace	-	Trace	·01		6
7	Trace	·	·	·23		·51	·	·	-	·31	·06	·28		7
8		·	·	·12		Trace	·	·	·	·21	·10	·40		8
9	·02	·	Trace	·41		·08	·	·	·	1·53	·06	-		9
10		·07	·	·26		Trace	·	·	·	·47	·19	-		10
11	·47	·09	·	·		·29	·	·	·	·27	·07	·01		11
12	·02	·18		·		·75	·	-	·04	-	·02	-		12
13	·13	·04	·	·09	·17	Trace	·	·	·08	·08	·03	-		13
14	Trace		·	·08	·04	·08	·	-	·13	-	1·31	STR ·30		14
15		1·56	·	·32	·06	·03	Trace	-	·25	·18	·06	STR ·21		15
16		·31	·11	·24	·08	·22	·15	·	·62	Trace	·16	-		16
17		·04	Trace	·34	·45	·18	·28	Trace	·08	·04	·25	·		17
18		·03	·	·08	·07	·04	·05	·	·38	·21	·11	·		18
19		·04	·	·22	Trace	·28	·28	-	·	·10	·13	-		19
20		·33	·	·24		·13	Trace	·	·	Trace	·04	·		20
21		·20	·01	·02		Trace	·	-	·69	·16	·04	S. ·13		21
22	·01	·15	·05	·19		·	·	·	·03	·01	-	-		22
23	·06	·	·65	·04		·	-	·39	·05	·27	-	-		23
24	·19	·31	·04			·	·	·	1·49	·04	Trace	STR ·14		24
25	·15	·01	·16	·		·21	-	·	-	-	·09	·03		25
26		·01	·	·		·	·03	·99	·51	·28	·16	·26		26
27	Snow	·07	·	·	Trace	·06	·23	-	·31	·63	·54	·06		27
28	·03	·05	·	·	Trace	·	·	Trace	·06	·31	·03	-		28
29	·01	×	·03	·		·	-	·09	·29	·56	·15	·18		29
30	·09	×	Trace	·		·14	-	·09	·76	·41	·62	·08		30
31	·11	×	Trace	×	·	×	·	·	×	·22	×	·25		31
TOTAL	1·64	4.72	1·41	3·23	0·87	4·33	1·48	1·56	6·75	7·28	4·70	3·36	Year's Total 41·33	
*Days with ·01 in. or more.	16	23	12	19	6	20	9	4	20	25	25	19	198	
*Days with ·04 in. or more.	9	18	9	18	6	18	8	4	19	22	22	15	168	

40-9999

*See Instruction 2/(f) on other side.

† Spare column, no entries required.

(Signed) .... [P.T.O.

Travelling Form Rochdale

COPY FOR OFFICIAL USE.

Section **A** **for the entry of Daily Observations.** **Station No.** 2861

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Rochdale, Broadfield Park Obsy.
in the County of S. Lancashire

Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground ft 8 in.
,, Ground ,, Sea Level 472 ft.

TL Totals.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·01	·03	S+R ·05	·13	-	·02	-	·39	·03	-	·23	·41		1
2	·03	S ·05	·02	·01	-	·32	·20	·05	-	-	·04	·11		2
3	-	-	-	-	-	·17	·04	·09	·58	-	-	·07		3
4	·25	S ·22	·21	-	-	Trace	·01	·08	·65	-	·22	·27		4
5	·15	S+R ·05	S+R ·56	-	·05	do.	-	·31	·35	-	·16	S+R ·34		5
6	·08	-	·05	-	Trace	do.	·06	·25	·70	-	·11	-		6
7	Trace	-	·19	-	-	·01	·17	-	·75	-	·11	·38		7
8	·41	-	·13	-	-	-	-	-	-	-	S+R ·63	·04		8
9	·24	-	·04	-	-	-	Trace	-	·08	Trace	·97	-		9
10	·07	-	-	-	-	-	·83	-	·03	-	1·03	S ·01		10
11	-	-	-	S+R ·02	-	·15	·32	·07	·11	-	·37	·03		11
12	Trace Snow	-	-	S+R ·06	·06	·54	·45	Trace	·33	·08	·15	·02		12
13	-	-	-	S+R ·03	Trace	·05	·06	-	-	·35	·02	·34		13
14	-	-	-	·06	-	·24	·11	·08	·52	·09	·33	·51		14
15	·18	-	·01	·09	·02	·12	·11	·65	·08	-	·45	·06		15
16	Snow ·02	·08	·02	S+R ·03	·01	Trace	·02	-	-	·03	·66	·10		16
17	S ·14	·34	·03	·02	-	-	·14	·17	-	·42	·04	·11		17
18	-	·04	-	·01	-	·19	·24	·10	-	·65	-	-		18
19	·19	·31	·05	·03	-	·06	·09	·26	-	·08	-	-		19
20	S+R ·28	·07	-	Trace Snow	-	-	·01	-	-	·03	-	·01		20
21	S ·10	·01	·04	S+R ·03	-	·05	-	-	-	·07	-	Trace		21
22	S ·22	S+R ·18	·05	-	·02	1·27	·25	-	-	Trace	-	·05		22
23	-	·07	·17	·24	·02	-	·41	·06	-	·05	-	Trace		23
24	·06	·01	Trace	·05	·26	-	-	·01	·10	·66	-	-		24
25	·36	·01	·01	·04	-	-	·10	-	·31	·28	·02	·07		25
26	·06	·23	·04	·04	-	-	·03	-	·38	·60	-	·01		26
27	·88	·01	·03	-	-	-	-	-	·02	·26	-	-		27
28	·15	·30	·12	-	-	-	·08	-	-	-	-	·12		28
29	·06	S+R ·15	·71	-	·65	·65	-	-	-	·13	·18	·07		29
30	·28	×	·02	-	·20	Trace	·23	·01	-	·49	·11	·05		30
31	·06	×	·04	×	·10	×	Trace	Trace	×	-	×	·42		31
TOTAL	4·28	2·16	2·59	·89	1·39	3·84	3·96	2·58	5·02	4·27	5·83	3·60	Year's Total. 40·41	404 ✓
* Days with .01 in. or more.	23	18	22	16	10	14	22	15	16	16	19	23	214	
* Days with .04 in. or more.	20	13.	15	8	6	12	18	13.	13	14.	17	18.	167	

40-9999

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*)

[P.T.O.

35 Travelling Form

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2861

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

Kept at Rochdale, Broadfield Park Observatory

in the County of S. Lancashire

Diameter of Funnel of Gauge..................in.

Height of top of Gauge above Ground.........ft..........in.

,, Ground ,, Sea Level ......472......ft.

T-L

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·06	·16	s ·09	-	-	·01	·02	-	·40	Trace	Trace	·20		1
2	·29	·23	·10	·08	-	Trace	·11	-	·02	-	-	·01		2
3	-	·13	·07	·13	·07	·65	·04	-	·01	-	-	·03		3
4	STR ·21	Trace	STR ·06	·04	·13	Trace	·04	Trace	-	-	-	s ·60		4
5	·85	-	Trace Snow	·01	-	·04	·02	-	·02	-	-	s ·02		5
6	·02	-	s ·01	·12	·09	Trace	-	·66	·03	Trace	·01	s ·04		6
7	·04	STR. ·20	·01	·32	·05	·04	-	-	·05	-	-	-		7
8	-	STR. ·56	-	·02	-	·09	·26	Trace	-	-	·03	s ·04		8
9	·03	STR. ·15	-	·05	·17	-	·19	·37	-	-	-	-		9
10	·02	STR. ·19	s ·02	-	-	·08	·01	·01	-	Trace	-	s ·31		10
11	-	-	s ·14	-	·06	-	·03	-	-	-	-	s ·03		11
12	·10	STR ·42	·06	Trace	·02	·07	·06	·44	·23	-	-	STR. ·26		12
13	-	·22	STR ·07	·01	-	·35	-	·23	Trace	Trace	-	STR ·27		13
14	-	·06	STR ·08	-	-	-	-	·11	·09	·01	-	STR. ·07		14
15	·40	·35	Trace Snow	·37	-	-	·42	-	·25	-	-	STR. ·03		15
16	·08	STR. ·34	·13	·26	·17	·02	-	·11	·16	-	-	·03		16
17	·07	·08	·32	·07	·01	·01	-	·01	·07	-	-	-		17
18	·17	·25	·17	·07	-	-	·02	·31	·07	-	·21	-		18
19	STR. ·12	·28	·04	·15	·14	·07	·04	·03	-	-	STR ·50	-		19
20	·08	STR ·18	-	·07	·46	·16	·13	-	-	-	-	STR ·31		20
21	·01	·06	STR ·03	·13	-	-	·27	-	-	·11	-	·15		21
22	·06	-	STR ·17	·01	·03	-	·28	-	-	·34	·08	·17		22
23	·07	-	STR ·02	-	·43	-	·15	-	-	·33	·05	·01		23
24	·07	STR. ·15	STR ·10	-	·09	-	·06	-	·11	·17	Trace	·06		24
25	-	·32	-	-	-	-	Trace	·19	·08	·05	-	·06		25
26	-	·35	STR. ·08	-	·43	-	-	-	-	-	-	·09		26
27	-	STR. ·55	-	·09	-	-	-	-	-	·24	-	·02		27
28	-	s ·10	-	-	-	·06	-	-	-	·14	-	-		28
29	·02	—	-	-	-	·01	-	-	-	·05	·22	Trace		29
30	STR. ·04	✗	-	-	Trace	·30	-	·05	-	·14	·59	·01		30
31	·12	✗	-	✗	·02	✗	-	·16	✗	·12	✗	-		31
TOTAL	2·95	5·33	1·77	2·00	2·37	1·96	2·15	2·68	1·59	1·70	1·69	2·76	Year's Total 28·95	✓
* Days with .01 in. or more.	22	22	20	18	16	15	18	13	14	11	8	23	200	✓
* Days with .04 in. or more.	16	22	15	14	12	11	13	10	10	10	6	14	153	✓

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) .... [P.T.O.

35

Travelling Form · Rochdale, Broadfield Park

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2861

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

TRAVELLING FORM:
VALUES FORWARDED MONTHLY

T.L.

Kept at Rochdale, Broadfield Park Obsy.

in the County of S. Lancashire

Diameter of Funnel of Gauge..................in.

Height of top of Gauge above Ground.........ft..........in.

,, Ground ,, Sea Level ....ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	-	·02	-	Trace	·03	·48	·20	·05	-	·15	·17	·33		1
2	·03	·04	-	·41	·04	·59	·03	-	Trace	·87	·21	·41		2
3	·02	-	-	Trace	-	·05	·05	-	·19	·96	·13	·05		3
4	-	Trace	-	·08	-	·02	·35	1·53	-	·24	·24	·85		4
5	·05	·03	-	·04	-	·03	·38	Trace	·07	·60	Trace	·05		5
6	·24	Trace	-	-	-	·05	·41	-	·11	·24	-	·01		6
7	·26	Trace	-	-	-	-	·26	·02	·17	·35	-	-		7
8	SYR. ·43	·06	Trace	-	-	-	·23	-	-	·71	-	·27		8
9	·12	·35	·10	-	-	·23	·16	·01	-	·16	-	·30		9
10	·01	·07	·02	-	-	·03	·49	-	·02	·12	-	·04		10
11	·17	·07	-	-	·06	·02	·05	·09	·02	·11	·13	·07		11
12	·15	-	-	-	·18	-	-	·10	Trace	1·21	·25	·01		12
13	·08	s ·01	-	-	·04	-	·09	-	·06	·21	·21	·28		13
14	·18	s ·02	-	-	·11	-	·11	-	·04	·01	·07	Trace		14
15	·27	-	·02	-	·03	-	·45	·31	-	·12	Trace	·21		15
16	·50	-	·04	-	·13	-	·02	·15	-	·04	·13	·15		16
17	-	-	-	-	·46	-	·10	·13	·07	·50	·06	·03		17
18	·14	-	-	-	·04	·03	-	·32	-	·47	·26	-		18
19	·06	-	-	-	-	-	-	·28	·08	Trace	Trace	s. ·08		19
20	·20	-	·05	-	-	-	-	·09	·04	-	·43	s. ·02		20
21	Trace	-	·03	-	-	-	-	·01	·02	-	·06	Trace		21
22	-	-	-	·01	·06	·26	-	-	Trace	-	·42	·02		22
23	·02	-	-	-	·12	·48	-	-	·10	-	·39	Trace		23
24	·32	·09	·20	-	·05	·16	·14	·46	·02	·02	·21	Trace		24
25	·11	·22	·06	-	·03	·04	·31	·04	-	·50	·68	·02		25
26	·08	·64	·19	-	·09	·33	·02	·03	·03	·27	·16	·10		26
27	·37	·16	-	-	·16	·58	·15	·23	·03	Trace	·35	-		27
28	·18	·13	·13	-	·54	·79	·11	·09	·05	·05	·03	·16		28
29	·08	-	·12	-	1·04	·20	·16	-	-	·15	·08	·40		29
30	·24	✕	-	-	·05	·19	·02	-	·31	·02	·24	·12		30
31	·12	✕	·07	✕	·29	✕	-	-	✕	·42	✕	s. ·95		31
TOTAL	4·43	1·91	1·03	·54	3·55	4·56	4·29	3·94	1·43	8·50	4·91	4·93	Year's Total ~~44·02~~	✓
* Days with .01 in. or more.	26	14	12	4	20	19	23	18	18	25	22	24	225	✓
* Days with .04 in. or more.	22	10	9	3	17	14	19	14	12	22	21	18	181	✓

GB 16/3/39

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) .... [P.T.O.

35 Travelling Form

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2861

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

Form 1090

REGISTER OF RAINFALL IN 1939

Totals

22 APR 1939

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

Kept at Rochdale Broadfield Park Observatory
in the County of S. Lancashire
Diameter of Funnel of Gauge .... in.
Height of top of Gauge above Ground .... ft. .... in.
,, Ground ,, Sea Level .... ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·21	-	·25	·02	-	-	·15	·12	·33	·01	-	·38		1
2	·04	-	·01	·10	-	-	·30	·54	·65	Trace	·06	·14		2
3	Trace	-	-	·04	-	-	-	·14	·05	-	·05	·62		3
4	s ·03	·01	·39	·11	·05	-	·60	-	-	·03	·02	·75		4
5	-	Trace	-	-	·23	-	·19	·04	-	·17	·41	·02		5
6	s ·94	·33	Trace	-	-	-	·65	Trace	-	Trace	·05	-		6
7	·23	·32	·22	-	·37	-	·11	Trace	-	-	·09	·45		7
8	·24	·12	·23	·02	-	-	·58	·07	-	·21	·11	·39		8
9	·10	·60	-	-	-	-	·03	·71	Trace	·24	·07	·48		9
10	·11	·01	·02	-	-	·14	-	·09	·36	·16	·03	·10		10
11	·30	·06	·25	-	-	·07	-	Trace	·04	-	-	Trace		11
12	·30	·07	-	-	-	·07	-	-	·02	·04	·01	-		12
13	·06	-	Trace	·27	·11	·20	·06	-	·04	·04	Trace	-		13
14	·59	Trace	-	·03	·39	·47	·83	-	-	Trace	·17	-		14
15	·18	·05	Trace	·67	·06	1·11	·24	-	Trace	-	·16	-		15
16	·13	Trace	·06	·02	·18	-	·01	-	-	-	·05	-		16
17	·81	·27	·02	Trace	·02	·05	·10	-	-	·06	·09	-		17
18	·02	·18	·02	-	-	·12	·27	-	-	-	·60	-		18
19	·24	-	-	-	·01	·01	·17	-	-	-	·02	-		19
20	·03	-	Trace	-	Trace	·09	·13	·09	Trace	-	-	-		20
21	·10	·08	·45	·10	·15	-	-	·12	·03	-	-	-		21
22	·07	·17	·16	·03	-	-	·13	-	-	·03	·62	-		22
23	Trace	·54	·03	·14	-	·03	·07	-	-	·55	·19	·04		23
24	·02	·15	·02	·02	-	Trace	Trace	-	-	·04	·02	-		24
25	·22	·21	Trace	-	-	·02	Trace	-	-	-	1·34	-		25
26	·01	·04	·01	-	-	-	-	1·62	-	·17	·45	·06		26
27	·04	1·55	·11	-	-	·56	·07	·06	-	·05	·34	·07		27
28	·02	·13	·07	·01	-	·19	·49	Trace	-	-	·82	-		28
29	-		Trace	-	-	-	1·19	-	-	·15	·31	-		29
30	-		-	-	-	·08	·13	-	-	-	·34	-		30
31					-		·16	·01		Trace		-		31
TOTAL	5·04	4·89	2·32	1·58	1·57	3·21	6·66	3·61	1·52	1·95	6·42	3·50	Year's Total 42·27	
* Days with .01 in. or more.	25	19	17	14	10	15	23	12	8	15	25	12	195	
* Days with .04 in. or more.	19	17	10	7	8	12	21	11	6	12	20	11	153	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) .... [P.T.O.

35

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2861

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19~~3~~40

Jan 26th–28th [illegible]

Kept at Rochdale, Broadfield Park Obsy.

in the County of S. Lancashire

Diameter of Funnel of Gauge..................in.

Height of top of Gauge above Ground.........ft..........in.

,, Ground ,, Sea Level ....ft.

-1 NOV 1940

RECD. -4 MAR 1940

ANSD.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	-	Trace	-	·28	-	Trace	Trace	-	-	-	·45	·24		1
2	-	-	-	·19	-	-	·09	-	-	-	·33	·23		2
3	-	·05	-	·16	-	-	·08	-	-	·09	·06	·14		3
4	-	·01	·01	·05	-	-	·08	-	-	·15	·19	·32		4
5	-	-	-	-	·14	-	·09	-	-	·44	·03	·53		5
6	·10	·21	-	-	-	-	·03	-	-	·65	·01	·18		6
7	·09	·15	·02	·22	·14	-	·01	·15	·10	·03	·01	-		7
8	-	-	·01	·04	-	-	·02	·03	-	·20	·06	·35		8
9	-	-	·20	Trace	-	-	·99	·18	·29	·55	1·34	·22		9
10	-	-	·04	-	-	-	·38	·16	-	·18	·43	·52		10
11	-	·03	·14	·06	-	·09	·04	-	-	-	1·64	-		11
12	-	Trace	·45	-	-	Trace	·08	·05	·45	-	·26	-		12
13	-	·01	·04	·04	-	-	-	·07	·42	-	·03	·03		13
14	-	·03	·07	·25	·25	-	·16	·07	·14	-	·11	·56		14
15	Trace	-	-	·04	·03	·03	-	-	·03	·02	·05	·05		15
16	·03	Trace	·15	·13	-	-	·75	-	1·21	·26	·10	·05		16
17	-	Trace	·58	·02	·17	-	·31	-	·16	-	·44	·02		17
18	·07	·09	·29	·35	-	-	·04	·25	·16	-	Trace	·28		18
19	Trace	·23	·25	·01	-	-	·33	-	·39	-	·45	·01		19
20	-	-	·03	·25	-	-	1·08	·30	·24	·19	·06	-		20
21	Trace	-	·26	Trace	-	·35	·06	·06	-	·03	·40	-		21
22	-	·04	·07	·11	·11	·04	-	·05	·59	·01	-	-		22
23	-	·23	·05	·02	·01	-	·12	-	·06	Trace	·17	-		23
24	·62	·01	·06	Trace	Trace	-	·01	-	·02	Trace	-	·04		24
25	·01	-	-	-	·01	·05	·01	-	-	·04	-	-		25
26	4 ~~·44~~	·11	·06	·01	·02	·05	·03	-	Trace	-	·06	-		26
27	(1·50) ~~·03~~	·61	Trace	·24	·03	-	·29	-	Trace	-	·11	-		27
28	× ·95	·17	Trace	-	·29	-	-	·13	-	-	-	·04		28
29	-	-	·32	Trace	-	·32	·02	-	-	·02	Trace	·65		29
30	Trace	☒	-	·06	-	-	-	-	-	·35	·03	·16		30
31	·01	☒	·18	☒	·02	☒	-	·06	☒	[illegible]	☒	·01		31
TOTAL	2·43 ~~3·32~~	1·98	3·28	2·53	1·22	·93	5·10	1·56	4·26	3·92	6·82	4·63	Year's Total ~~39·55~~	38·66
* Days with .01 in. or more.	10	15	21	20	12	7	24	13	14	17	24	21	198	
* Days with .04 in. or more.	6	10	17	16	6	6	17	12	12	12	19	17	150	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) .... [P.T.O.

Section **A** for the entry of
AIR MINISTRY

2862.

ORGANIZATION.

FORM 1090.

REGIST

—

2862

ROCHDALE, FIELDHEAD YARD

1931 —— 40

780502

Kept at Fieldhead Yard,

in the County of Lancaste

, C.E.,

or;

Diameter of Funnel of Gauge 8

Height of top of Gauge above Ground

,, Ground ,, Sea Le

le.

June 2nd

JStuch.

THE MORNING MEASU

An observer who does not conform to t
year in the space on the right of thi

owing

Jan. 1, following.

Please read th

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	-	.01	-	-	-	.01	-	-	.03	-	-	-	1
2	-	.10	-	.63	.03	1.26	-	-	.75	-	.08	.38	2
3	-	-	-	.09	-	-	.33	-	.29	.04	.51	.27	3
4	-	.04	-	.40	-	-	.07	-	.88	.05	.07	.50	4
5	-	.08	-	-	.19	.89	.06	.63	.01	.03	-	.01	5
6	-	.28	.01	-	.02	.16	.26	.02	.17	.60	.29	.19	6
7	-	.05	.01	-	-	.48	-	.25	-	.32	.10	-	7
8	.09	.28	.02	.11	.03	-	.18	.26	.08	.07	.21	.01	8
9	-	.80	.02	.24	-	.12	-	.51	.02	.03	.29	.07	9
10	.15	.30	-	-	.22	.23	-	.10	.04	-	.34	-	10
11	.49	.56	-	.06	-	-	.20	.02	.48	-	.73	-	11
12	.04	.49	-	.04	-	-	.14	-	.05	27	.16	-	12
13	-	-	.18	-	.07	-	.61	.09	-	-	-	.01	13
14	.17	.14	-	-	.03	.89	.02	.63	-	-	.45	-	14
15	.41	.49	-	.17	.18	.01	.10	.41	-	-	-	.04	15
16	.82	.13	-	.57	.32	.30	07	.84	.31	-	-	-	16
17	.03	.10	-	.22	.07	.10	.40	-	-	-	.12	-	17
18	.40	-	-	.16	-	-	.48	.11	-	-	.83	-	18
19	.21	.31	-	.05	-	-	-	.42	-	.03	-	-	19
20	.01	.16	.10	-	-	-	-	.09	-	-	.12	.03	20
21	.44	.05	.04	.03	-	.22	.03	.16	.06	-	.01	-	21
22	.29	.10	-	.06	.16	-	.05	-	-	-	.03	-	22
23	.39	-	-	.19	.33	22	.40	-	.06	-	.93	.29	23
24	.12	.44	-	.03	.51	-	.06	-	-	-	.05	.07	24
25	.15	.01	-	.32	-	-	-	-	-	-	.04	.12	25
26	-	.26	-	.13	-	-	.10	-	-	-	.54	.05	26
27	.48	.12	-	.03	.09	-	.51	-	-	.27	1.26	.06	27
28	.65	.35	-	.06	.06	-	.14	-	-	-	-	.15	28
29	.17	×	-	.02	.20	-	.11	-	-	82	-	-	29
30	-	×	-	.03	-	-	-	-	-	-	-	-	30
31	.56	×	.12	×	-	×	.13	-	×	.03	×	.13	31
TOTAL	6.07	3.65	.50	3.64	2.45	~~3.89~~ 4.89	4.45	4.54	3.23	2.56	7.16	2.38	YEAR'S TOTAL 47.52.
Days with ·01 in. or more.	20	24	8	22	16	13	22	15	14	12	21	17	204
Days with ·04 in. or more.	18	22	4	17	11	11	20	13	14	8	19	13	167

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(Signed) .... [P.T.O.

Borough Surveyor.

Section **A** for the entry of

2862.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

June 1" [illegible]

cf 2860

61

62

63

Kept at Fieldhead Yard, Rochdale.

in the County of Lancaster.

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 0 in.

" Ground " Sea Level 472.90 ft.

S.H.Morgan, M.Inst. C.E.,
Borough Surveyor,
Town Hall,
Rochdale.

906 sent 25/4/32 suggesting 1.26" for June 2nd. observer agrees 29/4/32.

JStruck.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following.

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	-	.01	-	-	-	.01	-	-	.03	-	-	-	1
2	-	.10	-	.63	.03	1.26	-	-	.75	-	.08	.38	2
3	-	-	-	.09	-	-	.33	-	.29	.04	.51	.27	3
4	-	.04	-	.40	-	-	.07	-	.88	.05	.07	.50	4
5	-	.08	-	-	.19	.89	.06	.63	.01	.03	-	.01	5
6	-	.28	.01	-	.02	.16	.26	.02	.17	.60	.29	.19	6
7	-	.05	.01	-	-	.48	-	.25	-	.32	.10	-	7
8	.09	.28	.02	.11	.03	-	.18	.26	.08	.07	.21	.01	8
9	-	.80	.02	.24	-	.12	-	.51	.02	.03	.29	.07	9
10	.15	.30	-	-	.22	.23	-	.10	.04	-	.34	-	10
11	.49	.56	-	.06	-	-	.20	.02	.48	-	.73	-	11
12	.04	.49	-	.04	-	-	.14	-	.05	27	.16	-	12
13	-	-	.18	-	.07	-	.61	.09	-	-	-	.01	13
14	.17	.14	-	-	.03	.89	.02	.63	-	-	.45	-	14
15	.41	.49	-	.17	.18	.01	.10	.41	-	-	-	.04	15
16	.82	.13	-	.57	.32	.30	07	.84	.31	-	-	-	16
17	.03	.10	-	.22	.01	.10	.40	-	-	-	.12	-	17
18	.40	-	-	.16	-	-	.48	.11	-	-	.83	-	18
19	.21	.31	-	.05	-	-	-	.42	-	.03	-	-	19
20	.01	.16	.10	-	-	-	-	.09	-	-	.12	.03	20
21	.44	.05	.04	.03	-	.22	.03	.16	.06	-	.01	-	21
22	.29	.10	-	.06	.16	-	.05	-	-	-	.03	-	22
23	.39	-	-	.19	.33	22	.40	-	.06	-	.93	.24	23
24	.12	.44	-	.03	.51	-	.06	-	-	-	.05	.07	24
25	.15	.01	-	.32	-	-	-	-	-	-	.04	.12	25
26	-	.26	-	.13	-	-	.10	-	-	-	.54	.05	26
27	.48	.12	-	.03	.09	-	.51	-	-	.27	1.26	.06	27
28	.65	.35	-	.06	.06	-	.14	-	-	-	-	.15	28
29	.17	×	-	.02	.20	-	.11	-	-	82	-	-	29
30	-	×	-	.03	-	-	-	-	-	-	-	-	30
31	.56	×	.12	×	-	×	.13	-	×	.03	×	.13	31
TOTAL	6.07	3.65	.50	3.64	2.45	4.89 ~~[illegible]~~	4.45	4.54	3.23	2.56	7.16	2.38	YEAR'S TOTAL 47.52 ~~[illegible]~~
Days with ·01 in. or more.	20	24	8	22	16	13	22	15	14	12	21	17	204
Days with ·04 in. or more.	18	22	4	17	11	11	20	13	[illegible]	8	19	13	167

40-9999

(Signed) SHMorgan
Borough Surveyor.

[P.T.O.

2862

Section **A** for the entry of Daily Observations. COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 193 2.

Kept at Fieldhead Yard, Rochdale.
in the County of Lancaster.
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft. 0 in.
" Ground " Sea Level 472·90 ft.

S.H.Morgan, M.Inst.C.E.,
Borough Surveyor,
Town Hall,
Rochdale.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	.58	.01	-	.49	.25	-	-	103	1.00	.23	.19	.09	1
2	1.12	-	-	-	.17	-	.01	.04	1.28	.20	.19	.31	2
3	.03	-	-	-	-	-	.25	-	.15	.05	.01	.05	3
4	.10	-	-	-	.01	-	.17	.01	.03	-	.13	.05	4
5	1.06	-	.17	.35	.04	-	-	-	.21	-	-	-	5
6	1.17	-	.23	.53	.03	-	-	-	.21	-	-	-	6
7	.19	-	.62	.22	-	-	-	-	.68	.40	.01	-	7
8	-	-	-	.16	-	-	-	-	.13	.61	-	.01	8
9	.08	.18	-	.61	.09	-	-	-	.09	-	-	.05	9
10	.56	.01	-	.05	-	-	-	-	.62	-	.01	.01	10
11	.03	.02	-	.04	.58	.06	.61	-	.07	-	.01	-	11
12	.45	-	-	-	.56	-	.25	.04	.04	.46	.01	-	12
13	.01	.03	-	.12	.11	-	.10	.05	.35	.63	.01	.24	13
14	.07	-	-	.02	-	-	.06	.08	.02	-	.06	.08	14
15	-	-	-	.01	.62	-	-	-	-	.17	.10	.04	15
16	.26	-	-	-	-	-	.04	.01	-	.20	-	.11	16
17	-	-	-	.04	-	-	.11	.05	-	.61	-	-	17
18	-	-	-	-	.08	-	-	-	.03	-	.01	-	18
19	.06	-	-	.18	.04	-	.01	-	-	.41	-	-	19
20	-	-	-	.21	.46	-	.06	.30	-	.14	.09	-	20
21	-	-	.39	.06	.30	-	.05	.35	-	.61	.13	.02	21
22	.03	-	.10	-	.15	-	.04	-	-	.14	1.23	.09	22
23	.04	.01	-	-	.31	-	.16	-	-	.10	.10	.07	23
24	-	.02	-	.01	.06	.02	.67	-	-	.03	.19	-	24
25	-	-	-	.15	.06	-	.04	-	.29	.95	.25	-	25
26	-	-	-	.08	.30	-	.56	-	.07	.32	.36	-	26
27	-	-	.38	.20	.24	.20	.16	-	.11	.04	.06	.17	27
28	-	-	.08	.10	.11	.14	.29	-	-	-	-	.11	28
29	.07	-	.68	-	.03	.39	.20	.40	-	.91	.20	.44	29
30	-	×	.12	.01	-	-	.08	.04	.14	.16	.30	.08	30
31	.01	×	.13	×	-	×	.12	.01	×	.01	×	.05	31
TOTAL	5.92	.28	2.90	3.64	4.60	.81	4.04	1.41	5.52	7.38	3.65	2.07	YEAR'S TOTAL 42.22
*Days with ·01 in. or more.	19	7	10	21	22	5	22	13	19	22	22	19	201
*Days with ·04 in. or more.	14	1	10	17	19	4	20	9	16	20	15	16	161

40-9999

*See Instruction 2 (*f*) on other side.

(Signed)

P.T.O.

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

Station No. 2862

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Fieldhead Yard, Rochdale.

in the County of Lancaster.

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 472·90 ft.

S. H. Morgan, M.Inst.C.E.,
Borough Surveyor,
Town Hall,
Rochdale.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·05	·68	·03	—	—	—	—	·01	·03	—	·38	—	1
2	·54	—	·17	·23	—	·23	—	·06	—	—	·01	—	2
3	·01	·54	·32	—	·48	—	—	·03	—	—	·02	—	3
4	·23	·19	·25	—	·18	—	—	—	—	—	—	—	4
5	·23	·21	·25	—	·09	—	—	—	—	—	·04	—	5
6	·02	·15	·08	—	·28	—	—	—	—	—	—	·05	6
7	·10	·30	·16	—	·06	—	·40	·03	—	·80	—	·01	7
8	·32	·15	·02	·15	·06	—	·22	·07	—	—	—	·07	8
9	—	·09	·12	·15	·03	—	·89	—	—	·63	·14	—	9
10	·17	·01	—	—	—	—	·06	—	—	1·26	·12	—	10
11	·01	—	—	—	—	—	1·09	·01	—	·37	—	·03	11
12	·03	—	—	—	—	·16	·28	—	—	·10	—	·06	12
13	·01	—	·03	—	·17	—	·25	·01	—	·13	·26	—	13
14	·36	—	·03	—	·09	—	·06	·03	·02	·01	·36	—	14
15	·22	—	·04	—	—	—	·01	·06	—	·23	·34	—	15
16	·01	—	·24	·04	—	·35	·01	·01	—	·23	·02	—	16
17	·04	·02	·56	·03	·02	·65	—	·18	·06	—	·13	—	17
18	·02	—	·29	—	·06	·51	—	·07	—	—	·02	—	18
19	—	·04	·43	—	—	·04	—	·08	·27	—	·09	·03	19
20	—	·15	·06	—	—	—	—	·44	—	—	—	—	20
21	—	—	—	—	—	·08	—	·34	·18	—	—	·01	21
22	—	—	—	—	·09	·01	—	·09	—	·08	—	—	22
23	—	·01	—	·31	—	—	—	·05	·04	·06	—	—	23
24	—	·40	—	·19	·09	·26	—	—	·71	—	—	—	24
25	—	·21	—	·10	—	—	—	—	·06	—	—	·07	25
26	—	·21	—	·52	—	—	—	—	—	·37	—	·01	26
27	—	—	—	—	—	—	—	—	—	·01	—	—	27
28	—	—	—	—	—	—	·08	—	—	·25	—	—	28
29	—	*	—	·07	—	—	·05	—	—	·01	—	·08	29
30	·01	×	·05	·06	—	—	·31	—	—	·37	—	·25	30
31	·36	×	—	×	—	×	·26	·31	×	·21	×	—	31
TOTAL	2·74	3·36	3·13	1·85	1·70	2·29	3·97	1·88	1·37	5·12	1·93	·67	YEAR'S TOTAL 30·01
*Days with ·01 in. or more.	19	16	18	11	13	9	14	18	18	17	13	11	167
*Days with ·04 in. or more.	11	13	14	10	11	8	12	11	6	14	9	6	125

40-9999

*See Instruction 2 (*f*) on other side,

(*Signed*)

P.T O.

2862

COPY FOR OFFICIAL USE.

Section **A** **for the entry of Daily Observations.**

Station No. ~~74 305/27~~

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Fieldhead Yard, Rochdale.
in the County of Lancaster.
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 472·90 ft.

S.H.Morgan, M.Inst.C.E.,
Borough Surveyor,
Town Hall,
Rochdale.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	.18	—	—	—	—	—	—	.03	.07	.04	.07	.59	1
2	.01	.03	.12	—	.05	—	—	.53	.06	—	.17	.51	2
3	.12	.01	.01	—	—	—	—	.07	.08	.12	.05	.08	3
4	.21	—	.21	.06	.11	—	—	—	.04	.92	—	.85	4
5	—	—	.11	—	.05	—	—	.53	—	.40	.04	.15	5
6	.01	—	.09	.05	.60	.06	—	.01	—	.30	—	.41	6
7	.34	.06	.16	.05	—	.01	—	—	—	.06	.39	.42	7
8	—	—	.03	—	.09	.63	—	.05	.02	.16	.64	.04	8
9	—	.07	.20	.01	—	—	—	.20	.01	.02	.35	.02	9
10	—	—	.18	.10	—	—	—	.16	—	.42	.03	—	10
11	.12	—	.01	.57	—	—	—	.25	—	.01	.02	.17	11
12	—	—	.03	.15	—	—	.02	—	—	.07	.01	.03	12
13	.48	—	—	.05	.09	—	.13	.03	—	.25	—	.01	13
14	.24	—	.15	—	.08	—	—	—	—	.61	.05	.11	14
15	.59	—	.22	—	.65	—	—	.11	.36	.02	.01	.33	15
16	.58	—	.17	—	.15	—	—	—	—	—	.01	.05	16
17	.40	—	.40	.03	.20	—	.25	—	—	.02	.04	.27	17
18	.37	—	.23	.16	.59	.25	—	—	.35	—	—	.22	18
19	—	.01	.21	.01	.03	.26	—	.01	.35	.22	.01	.10	19
20	—	—	—	.14	.21	.12	—	.04	.07	.15	—	.01	20
21	.04	—	.04	—	.01	.43	—	—	.21	.07	—	—	21
22	.05	—	—	—	—	—	—	—	.36	.15	.01	—	22
23	.01	—	.14	.50	—	.04	.56	.62	—	.21	.05	.04	23
24	—	.20	.03	.19	—	.02	—	.15	.38	.24	—	—	24
25	.11	.14	—	.03	—	—	.39	.03	.26	.25	—	.38	25
26	.17	—	—	.22	.02	.16	.28	—	.28	.06	.01	.24	26
27	—	—	.01	.12	—	.46	.45	—	.04	.53	.06	.38	27
28	—	—	—	.01	—	.08	.09	.64	—	.19	—	.55	28
29	—	~~×~~	—	—	—	—	.10	.22	.43	.15	—	.11	29
30	.05	×	—	—	—	—	.06	.36	.32	.23	—	.06	30
31	—	×	—	×	—	×	.25	—	×	.03	×	.26	31
													YEAR'S TOTAL
TOTAL	4.08	.52	2.75	2.45	3.13	2.50	2.56	4.04	3.69	5.90	2.02	6.39	40.03
*Days with ·01 in. or more.	19	7	21	18	15	12	11	19	18	28	19	27	214
*Days with .04 in. or more.	16	4	15	13	12	10	10	14	16	23	11	23	167

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) S.H.Morgan

P.T.O.

File No. 743051/27.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2863

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935 .

Obsr. agrees to amendment of June 12th

743051/27.

Kept at Fieldhead Yard, Rochdale.

in the County of Lancaster

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 472·90 ft.

906 Sen r
Suggestion
·80 for June 12th
Ale.

S. H. Morgan, M. Inst. C.E.
Borough Surveyor,
Town Hall,
Rochdale.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	.41	.38	.01	.06	–	.02	.04	–	.26	.71	.16	.49		1
2	.01	.23	.07	–	–	.35	.01	–	.09	.16	.04	.59		2
3	.06	.72	.09	.10	–	.08	.53	–	.36	.01	.09	.15		3
4	–	.01	.09	.01	–	.09	.10	–	.32	.31	–	.05		4
5	–	.57	.10	.26	–	.62	.01	–	.22	.01	.18	.24		5
6	–	–	–	.12	–	.40	–	–	–	.01	–	–		6
7	.01	–	–	.13	–	.51	–	–	–	.45	.09	.31		7
8	–	–	–	.12	–	–	–	–	–	.22	–	.56		8
9	.01	.08	–	.44	–	.05	–	–	–	1.52	.06	–		9
10	–	–	.01	.31	–	.10	–	–	–	.50	.04	–		10
11	.58	.10	–	–	–	.02	–	–	–	.39	.09	.02		11
12	–	.18	–	–	–	80 ~~.08~~	–	–	.04	.09	.02	–		12
13	.11	.05	–	.11	.28	–	–	–	.14	.03	.01	–		13
14	–	–	–	.07	.08	.10	–	–	.11	–	1.40	.22		14
15	–	1.78	–	.32	.08	–	.01	–	.33	.28	.06	.42		15
16	–	.38	.12	.31	.08	.04	.29	–	.92	–	.20	–		16
17	–	.03	–	.41	.40	.21	–	–	.27	.04	.35	–		17
18	–	.04	–	.10	.07	.10	.06	–	.43	.38	.15	–		18
19	–	.04	–	.21	.01	.34	.26	–	–	.17	.20	–		19
20	–	.43	–	.32	–	.18	.04	–	–	–	.14	–		20
21	–	.15	.01	.01	–	–	–	–	.81	.21	.10	.16		21
22	.01	.16	.13	.14	–	–	–	–	.07	–	.01	–		22
23	.03	–	.38	–	–	–	–	.46	.04	.29	–	–		23
24	.50	.38	.03	–	–	–	–	–	1.63	.04	.01	.14		24
25	.14	–	.26	–	–	.28	–	–	–	–	.09	.02		25
26	–	–	–	–	–	–	.03	1.02	.55	.49	.20	.24		26
27	–	.07	–	–	–	.08	.34	–	.33	1.18	.51	.05		27
28	.03	.04	–	–	.04	–	–	.01	.06	.51	.05	–		28
29	–	×	.03	–	–	–	–	.16	.36	.47	.18	.20		29
30	.08	×	–	–	–	.15	–	–	.67	.60	.57	–		30
31	.06	×	–	×	–	×	–	–	×	.26	×	.30		31
TOTAL	2.04	5.82	1.33	3.55	1.04	4·52 ~~3.50~~	1.72	1.65	8.01	9.33	5.00	4.16	Year's Total. ~~[illegible]~~	48·17
* Days with .01 in. or more.	14	20	13	19	8	20	12	4	21	26	26	17	200	
* Days with .04 in. or more.	8	18	8	17	7	18	8	3	21	22	22	15	167	

40-9999

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(Signed) ....

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2862

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Fieldhead Yard, Rochdale.

in the County of Lancaster.

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

„ Ground „ Sea Level 472·90 ft.

S. H. Morgan, M. Inst. C.E.,
Borough Surveyor,
Town Hall, Rochdale.

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Jan. 1, following

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Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·01	·04	·03	·10	–	–	–	·36	–	–	·55	·46		1
2	·02	·05	·01	·04	–	·41	·06	·15	·11	–	·29	·15		2
3	–	–	–	·02	–	·42	·03	·20	·54	–	·01	·14		3
4	·41	·22	·22	–	–	–	–	·09	·47	–	·33	·31		4
5	·06	·04	·57	–	–	–	–	·31	·48	–	·29	·50		5
6	·11	–	·06	–	·07	–	·06	·31	·73	–	·17	·25		6
7	–	–	·17	–	–	–	·18	–	·92	–	·18	–		7
8	·43	–	·12	–	–	–	–	–	–	–	·60	–		8
9	·25	–	·04	–	–	–	·13	–	·08	–	·99	–		9
10	·11	–	–	–	–	–	·66	–	–	–	1·23	–		10
11	–	–	–	·07	–	·16	·37	·05	·02	–	·46	·11		11
12	–	–	–	·05	·05	·62	·52	–	·42	·06	·18	·07		12
13	·02	–	–	·09	–	·06	·07	–	–	·45	·01	·44		13
14	–	–	–	·04	–	·23	·17	·20	–	·05	·37	·61		14
15	·21	–	·01	·10	·03	·15	·06	·35	·49	–	·51	·07		15
16	·01	·07	–	·04	·03	–	·01	–	–	·02	·79	·06		16
17	·11	·36	·04	–	–	–	–	·21	–	1·10	·04	·15		17
18	–	·06	–	–	–	·22	–	·11	–	·66	–	·09		18
19	·35	·31	·04	–	–	·06	·17	·29	–	·07	–	–		19
20	·21	·10	–	·14	–	–	·23	–	–	·04	–	·02		20
21	·09	–	·03	–	·05	·06	–	–	–	·07	–	·01		21
22	·18	·20	·06	–	–	1·22	·32	–	–	–	–	–		22
23	–	·17	·15	–	–	–	·48	·03	–	·06	–	–		23
24	·08	·03	–	·20	·33	–	–	·01	·12	·73	–	·08		24
25	·43	·05	·01	·08	–	–	–	–	·35	·35	–	–		25
26	·10	·22	·08	·02	–	–	·09	–	·40	·73	–	·03		26
27	·97	·02	·02	–	–	–	–	–	·16	·43	–	–		27
28	·17	·35	·05	–	–	–	·08	–	–	·09	–	·14		28
29	·09	·16	·89	–	·65	·65	–	–	–	·11	·20	·14		29
30	·29	✕	·02	–	·27	–	·31	–	–	·55	·15	·10		30
31	·05	✕	·04	✕	–	✕	–	–	✕	–	✕	·30	Year's Total	31
TOTAL	4·76	2·45	2·66	·99	1·48	4·26	4·00	2·67	5·29	5·57	7·35	4·33	45·81	✓ ✓
* Days with ·01 in. or more.	24	17	21	13	8	12	19	14	14	17	19	22	200	✓
* Days with ·04 in. or more.	20	15	14	10	6	12	17	12	13	16	17	19	171	✓

40-9999.

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) SHMorgan [P.T.O.

Borough ~~Surveyor~~, Rochdale.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2862

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937

Kept at Fieldhead Yard, Rochdale.
in the County of Lancaster.
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 472.90 ft.

S. H. Morgan M. Inst C.E.
Borough Surveyor,
Town Hall,
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Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·10	·18	·10	–	–	–	–	–	·50	–	–	·22		1
2	·30	·35	·09	·10	–	–	·14	–	·01	–	–	·02		2
3	–	·12	·09	·07	·12	·70	·07	–	·02	–	–	·02		3
4	·29	–	·08	·18	·08	–	·01	·01	·03	–	–	·58		4
5	1·39	–	·02	–	–	–	·03	–	–	–	–	·22		5
6	·07	–	–	·15	·08	–	–	·69	·06	–	·01	·07		6
7	·08	·28	–	·47	·06	·03	·02	–	·07	–	–	–		7
8	–	·49	–	·04	–	·10	·18	·01	–	–	·04	·01		8
9	·02	·17	·01	·03	·17	–	·39	·42	–	–	–	·03		9
10	·01	·13	–	–	–	·04	–	·01	–	–	–	·35		10
11	–	–	·28	–	·06	–	·01	–	–	–	–	·02		11
12	·12	·39	·05	–	–	·10	·06	·56	·25	–	–	·17		12
13	–	·23	·07	·02	–	·40	–	·17	–	–	–	·21		13
14	–	·08	·12	–	–	–	–	·19	·11	–	–	·12		14
15	·44	·36	–	·40	–	–	·42	–	·28	–	–	·03		15
16	·13	·20	·12	·42	·21	–	–	·15	·16	–	–	–		16
17	·07	·48	·34	·13	·01	·02	–	·07	·07	–	–	–		17
18	·26	·32	·18	·08	–	–	·01	·27	·07	–	·28	–		18
19	·13	·33	·03	·20	·08	·08	·03	·04	–	–	·48	–		19
20	·09	·26	–	·15	·51	·28	–	–	–	–	–	·36		20
21	·01	·07	·02	·10	–	–	·43	–	–	·14	–	·16		21
22	·05	–	·13	·02	·02	–	·39	–	–	·33	·07	·14		22
23	·08	–	·01	–	·46	–	·24	–	–	·44	·09	·03		23
24	·07	·11	·16	–	·08	–	·05	–	·14	·21	–	·12		24
25	·01	·40	–	–	–	–	–	·18	·10	·05	–	·03		25
26	–	·30	–	–	·48	–	–	–	–	–	–	·09		26
27	–	·39	–	·11	–	–	–	–	–	·33	–	·02		27
28	·01	·34	–	–	–	·07	–	–	–	·15	–	–		28
29	·02	×	–	–	–	·02	–	–	–	·06	·26	·01		29
30	·09	✕	–	–	·01	·31	–	·08	–	·14	·63	·01		30
31	·16	✕	–	✕	–	✕	–	·10	✕	·14	✕	–		31
TOTAL	4·00	5·98	1·90	2·67	2·43	2·15	2·48	2·95	1·87	1·99	1·86	3·04	Year's Total 33·32	✓
* Days with .01 in. or more.	24	22	18	17	15	12	16	15	14	10	8	24	195	✓
* Days with .04 in. or more.	18	22	13	14	12	9	10	12	11	10	7	13	151	✓

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(Signed) S. H. Morgan [P.T.O.

Borough Surveyor.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations

Station No. 2862

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

Kept at Fieldhead Yard, Rochdale.
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Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft. 0 in.
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S. H. Morgan M.Inst.C.E.,
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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	–	·04	–	·01	·01	·67	·27	·06	–	·22	·17	·32		1
2	–	·07	–	·52	·09	·44	·02	–	–	1·24	·29	·44		2
3	·05	–	–	–	–	·09	·06	–	·21	1·66	·21	·01		3
4	·03	–	·02	·11	–	·02	·08	1·04	–	·46	·44	1·05		4
5	·05	·03	–	·03	–	·04	·30	·37	·06	·66	–	·06		5
6	·26	–	–	–	–	·05	·31	–	·07	·38	–	·02		6
7	·37	–	–	–	–	–	·45	·02	·28	·35	–	·03		7
8	·45	·07	–	–	–	–	·31	–	–	1·11	–	·25		8
9	·13	·50	·12	–	·02	·26	·21	–	–	·15	–	·33		9
10	·01	·10	·01	–	–	·03	·62	·01	–	·17	–	·06		10
11	·10	·08	–	–	·05	–	·14	·25	·02	·20	·16	·07		11
12	·38	–	–	–	·15	–	–	·17	–	1·18	·37	·01		12
13	·01	·01	–	–	·05	–	·10	–	·07	·36	·26	·32		13
14	·38	·04	–	–	·15	–	·15	–	·05	{·12✓	–	–		14
15	·40	–	·02	–	·01	–	·32	·15	–	✗	–	{·41✗		15
16	·75	–	·06	–	·13	–	·15	·17	–	·09	·26	✗		16
17	–	·01	–	–	·47	–	·12	·22	·09	·42	·04	–		17
18	·14	–	–	–	·09	·02	–	·33	–	·54	·34	·03		18
19	·01	–	–	–	–	–	–	·03	·08	–	–	·11		19
20	·27	–	·05	–	–	–	–	·44	·05	–	·50	·01		20
21	–	–	·03	–	–	–	–	·03	·01	–	·08	·01		21
22	–	–	–	·01	–	·26	–	–	–	–	·48	·04		22
23	–	–	–	–	·23	·53	–	–	·09	–	·74	–		23
24	·29	·15	·22	–	·05	·15	·12	·48	·02	·07	·19	–		24
25	·15	·35	{·35✗	–	·01	·11	·38	·04	–	·43	·79	{·17✗		25
26	·23	·53	✗	–	·10	·17	·02	·02	·05	·33	·21	✗		26
27	·43	·22	–	–	·57	1·08	·19	·23	·02	·01	·49	–		27
28	·36	·12	·17	–	·18	·85	·12	·12	·07	{·23✓	–	·16		28
29	·13	×	·18	–	1·12	·36	·19	–	–	✗	·12	·42		29
30	·33	✕	–	–	·12	·17	·02	–	·35	·02	·33	·19		30
31	·30	✕	·05	✕	·35	✕	–	–	✕	·50	✕	·91		31
													Year's Total	
TOTAL	6·01	2·32	1·28	·68	3·95	5·60	4·65	4·18	1·59	10·90	6·47	5·43	53·06 ✓	
* Days with .01 in. or more.	25	15	13 ~~12~~	5	20	18	23	19	17	26 ~~24~~	20	26 ~~24~~	227 ~~222~~ ✓	
* Days with .04 in. or more.	21	12	9 ~~8~~	2	16	15	20	14	13	24 ~~[illegible]~~	20	19 ~~17~~	185 ~~180~~ ✓	

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) S.H.Morgan

Borough Surveyor,

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations
Station No. 2862

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939

Kept at Fieldhead Yard, Rochdale.
in the County of Lancaster.
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 472.90 ft.

S. H. Morgan M. Inst. C. E.,
Borough Surveyor,
Town Hall,
Rochdale.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·32	—	·27	·03	—	—	·11	·11	·39	·02	—	·42		1
2	·11	—	·01	·10	—	—	·50	·64	·75	—	·05	·19		2
3	·06	—	—	·05	—	—	—	·14	·03	—	·06	·62		3
4	·15	—	·44	·24	·05	—	·61	—	—	—	·03	·70		4
5	—	—	—	—	·27	—	·37	·04	—	·18	·29	·08		5
6	·96	·40	—	—	—	—	·63	—	—	—	·23	—		6
7	·20	·30	·30	—	·41	—	·12	—	—	—	·09	·41		7
8	·34	·13	·28	·02	—	—	·52	·12	—	·05	·14	·41		8
9	·11	·63	—	—	—	—	·06	·90	—	·42	·10	·51		9
10	·33	—	·02	—	—	·12	—	·08	·48	·12	·01	·10		10
11	·35	·21	·28	—	—	·12	—	·01	·04	—	—	—		11
12	·39	·09	—	—	—	·05	—	—	·01	—	·01	—		12
13	·01	—	·01	·30	·14	·18	·06	—	·05	·05	—	—		13
14	·70	—	—	·06	·37	·46	·69	—	—	·02	·23	—		14
15	·20	·06	—	·68	·07	1·24	·13	—	—	—	·11	—		15
16	·12	—	·09	·05	·33	—	·04	—	—	—	·08	—		16
17	·83	·32	—	—	·02	·04	·12	—	—	·08	·09	—		17
18	·02	·24	·02	—	—	·14	·40	—	—	—	·78	—		18
19	·28	—	—	—	—	·02	·19	—	—	—	·03	—		19
20	·04	—	—	—	—	·10	·08	·06	—	—	—	—		20
21	·10	·10	·63	·16	·08	—	—	·03	·03	—	—	—		21
22	·10	·19	·15	·03	—	—	·15	—	—	·01	·58	—		22
23	—	·48	·02	·18	—	—	·02	—	—	·55	·30	·03		23
24	·02	·10	·06	·01	—	—	—	—	—	·07	·01	—		24
25	·44	·27	—	—	—	·01	—	—	—	—	1·55	·04		25
26	·07	·03	·03	—	—	—	—	1·68	—	·23	·63	·06		26
27	·02	1·51	·27	—	—	·53	·08	·06	—	·05	·40	—		27
28	—	·30	·13	—	—	·20	·58	—	—	—	·84	—		28
29	—	×	—	—	—	—	1·24	—	—	·16	·31	—		29
30	—	✕	—	—	—	·06	·14	—	—	—	·39	—		30
31	—	✕	—	✕	—	✕	·18	—	✕	—	✕	—		31
TOTAL	6·27	5·36	3·01	1·91	1·74	3·27	7·02	3·87	1·78	2·01	7·34	3·57	Year's Total 47·15	
* Days with .01 in. or more.	25	17	17	13	9	14	23	12	8	14	25	12	189	
* Days with .04 in. or more.	21	16	11	9	8	12	22	10	5	11	20	11	156	

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) S H Morgan

Borough Surveyor

[P.T.O.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations

Station No. 2862

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19~~3~~40.

Kept at Fieldhead Yard, Rochdale.

in the County of Lancaster.

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

" Ground " Sea Level 472·90 ft.

S.H.Morgan, M.Inst.C.E.,
Borough Surveyor,
Town Hall,
Rochdale.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	–	·01	–	·21	–	–	–	–	·02	–	·57	·30		1
2	–	–	–	·25	–	–	– ✓	–	–	·08	– ✓	·25		2
3	·01	·03	–	·18	–	–	– ✓	–	–	·08	1·07	·38		3
4	–	·09	–	·10	–	–	– ✓	–	–	– ✓	·07	·11		4
5	–	–	–	–	·21	–	– ✓	–	–	·76	·18	·30		5
6	·01	·16	–	–	–	–	– ✓	–	–	·76	·03	·53		6
7	·01	·17	–	·22	·13	–	– ✓	– ✓	·10	·02	·02	·21		7
8	–	–	– ✓	·04	–	–	·01	– ✓	–	·24	·01	–		8
9	–	–	– ✓	–	–	–	1·00	·46	·31	·55	·07	·33		9
10	–	–	·22	–	–	–	·32	·34	–	·24	1·32	·74		10
11	–	·03	·14	·05	–	·07	·04	–	·35	–	1·48	–		11
12	–	–	·48	–	–	–	·14	·03	·17	–	·53	–		12
13	–	·25	·05	·02	–	–	–	·07	–	–	·02	– ✓		13
14	–	·25	·02	– ✓	– ✓	–	·13	·08	·13	–	·09	·59		14
15	–	–	–	·15	·19	–	–	–	·16	–	·05	·04		15
16	·50	–	·11	– ✓	–	–	·81	–	1·29	·03	·14	·06		16
17	–	–	·58	–	·22	–	·22	–	·15	–	·42	·20		17
18	·25	·14	·28	·51	–	–	·03	·26	·19	–	–	·16		18
19	–	·29	·27	– ✓	–	–	·23	–	·35	–	·42	– ✓		19
20	–	·02	– ✓	·21	–	–	·53	·36	·17	·21	·05	–		20
21	–	–	·30	·02	–	·25	– ✓	·08	–	·02	·46	·01		21
22	–	·03	·12	–	·08	·13	–	·06	·58	–	–	–		22
23	–	·20	·20	·22	– ✓	–	·12	–	·06	–	·18	–		23
24	·67	–	·70	·02	–	–	– ✓	–	·02	–	–	–		24
25	·01	·01	–	–	–	·05	– ✓	–	–	·06	–	–		25
26	·85	·11	·09	–	·01	– ✓	– ✓	–	–	–	·05	–		26
27	·20	·55	–	–	– ✓	–	·39	–	·12	–	– ✓	–		27
28	– ✓	·39	–	–	·27	–	–	·14	–	–	–	·03		28
29	–	–	·32	–	–	·35	–	–	–	– ✓	–	–		29
30	–	✕	–	–	–	–	–	–	–	– ✓	–	·02		30
31	·01	✕	·17	✕	– ✓	✕	–	–	✕	1·27	✕	·01		31
TOTAL	2·52	2·73	4·05	2·20	1·11	·85	3·97	1·88	4·14	4·32	7·23	4·27	Year's Total 39·30	
* Days with .01 in. or more.	~~10~~ 11	17	~~16~~ 20	~~14~~ 17	~~10~~ 11	6	~~13~~ 23	~~10~~ 12	16	~~13~~ 16	~~17~~ 23	~~18~~ 20	~~159~~ 192	
* Days with .04 in. or more.	~~5~~ 6	11	~~15~~ 17	~~11~~ 13	~~6~~ 7	6	~~11~~ 18	~~9~~ 10	14	~~10~~ 12	19	14	~~128~~ 147	

1.0 >

* See Instruction 3 (f) on other side.

† Spare column, no entries required

(*Signed*) S H Morgan
Borough Surveyor.

[P.T.O.

2863

Section **A** for the entry of D

AIR MINISTRY.

FORM 1090.

REGIST

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2863

ASHWORTH MOOR

1931——40

780502

OR OFFICIAL USE.

RGANIZATION.

Kept at Ashworth Moor (

in the County of Lancas

Diameter of Funnel of Gauge

Height of top of Gauge above Ground

,, Ground ,, Sea Leve

THE MORNING MEASUR

An observer who does not conform to th

year in the space on the right of this

ning

Please read the

Jan. 1, following.

Date	Jan.	Feb.	March	A							Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0"07	0"01	0"00	0"06	0"00	0"00	0"00	0"00	0"06	0"14	0"00	0"00	1
2	0"02	0"06	0"00	0"68	0"05	1"32	0"00	0"00	0"92	0"03	0"08	0"10	2
3	0"00	0"00	0"00	0"11	0"00	0"04	0"39	0"00	0"30	0"04	0"14	0"32	3
4	0"00	0"01	0"00	0"25	0"01	0"00	0"24	0"01	0"68	0"07	0"07	0"42	4
5	0"00	0"07	0"00	0"00	0"20	1"14	0"28	1"49	0"04	0"00	0"00	0"33	5
6	0"00	0"28	0"00	0"00	0"05	0"23	0"22	0"02	0"27	0"55	0"33	0"00	6
7	0"00	0"07	0"00	0"00	0"01	0"68	0"00	0"24	0"00	0"28	0"12	0"23	7
8	0"01	0"35	0"00	0"09	0"02	0"00	0"18	0"33	0"13	0"06	0"26	0"03	8
9	0"03	0"73	0"00	0"24	0"00	0"09	0"00	0"37	0"05	0"05	0"36	0"10	9
10	0"08	0"14	0"00	0"00	0"19	0"44	0"00	0"18	0"09	0"00	0"34	0"01	10
11	0"43	0"39	0"00	0"05	0"00	0"04	0"18	0"02	0"40	0"00	1"40	0"02	11
12	0"02	0"03	0"00	0"04	0"00	0"02	0"38	0"02	0"07	0"26	0"15	0"00	12
13	0"00	0"00	0"19	0"00	0"05	0"01	0"28	0"07	0"00	0"00	0"00	0"00	13
14	0"12	0"14	0"00	0"01	0"02	1"27	0"20	0"98	0"01	0"00	0"52	0"02	14
15	0"30	0"30	0"00	0"18	0"18	0"00	0"21	0"27	0"00	0"00	0"00	0"04	15
16	0"52	0"11	0"00	0"39	0"32	0"28	0"10	0"63	0"26	0"00	0"00	0"00	16
17	0"03	0"05	0"00	0"18	0"03	0"14	0"56	0"33	0"05	0"00	0"09	0"00	17
18	0"35	0"00	0"00	0"12	0"00	0"72	0"60	0"13	0"00	0"00	0"84	0"00	18
19	0"20	0"28	0"00	0"03	0"00	0"00	0"05	1"14	0"03	0"02	0"00	0"02	19
20	0"01	0"13	0"06	0"00	0"00	0"10	0"00	0"05	0"00	0"00	0"12	0"00	20
21	0"55	0"05	0"16	0"00	0"17	0"13	0"02	0"22	0"00	0"00	0"02	0"00	21
22	0"35	0"09	0"00	0"07	0"28	0"05	0"03	0"00	0"00	0"00	0"05	0"00	22
23	0"27	0"00	0"00	0"31	0"63	0"23	0"31	0"00	0"00	0"00	1"12	0"34	23
24	0"06	0"32	0"00	0"07	0"47	0"00	0"04	0"00	0"00	0"00	0"09	0"07	24
25	0"06	0"78	0"00	0"28	0"08	0"00	0"05	0"00	0"00	0"00	0"07	0"13	25
26	0"01	0"07	0"00	0"53	0"00	0"00	0"00	0"00	0"00	0"00	0"56	0"04	26
27	0"60	0"03	0"00	0"02	0"12	0"00	0"45	0"00	0"00	0"29	1"63	0"05	27
28	0"44	0"18	0"00	0"04	0"11	0"00	0"21	0"00	0"00	0"00	0"00	0"04	28
29	0"18		0"00	0"04	0"24	0"00	0"22	0"00	0"00	0"82	0"02	0"00	29
30	0"00	✕	0"00	0"00	0"00	0"00	0"00	0"00	0"11	0"00	0"02	0"00	30
31	0"38	✕	0"00	✕	0"00	✕	0"12	0"00	✕	0"04	✕	0"08	31
TOTAL	5"09	4"67	0"41	3"79	3"23	6"90	5"32	6"50	3"47	2"65	10"41	2"39	YEAR'S TOTAL 54"83
Days with ·01 in. or more.	24	24	3	22	20	18	23	18	16	13	23	19	223
Days with ·04 in. or more.	17	20	3	19	15	16	21	14	14	11	20	14	184

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(Signed) J. Stanley Diggle per Jm

P.T.O.

2863

Section **A** for the entry of D OR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Ashworth Moor (Daily only)
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 2 in.
,, Ground ,, Sea Level 955.66 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following.

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0"07	0"01	0"00	0"06	0"00	0"00	0"00	0"00	0"06	0"14	0"00	0"00	1
2	0"02	0"06	0"00	0"68	0"05	1"32	0"00	0"00	0"92	0"03	0"08	0"10	2
3	0"00	0"00	0"00	0"11	0"00	0"04	0"39	0"00	0"30	0"04	[illegible]"14	0"32	3
4	0"00	0"01	0"00	0"25	0"01	0"00	0"24	0"01	0"68	0"07	0"07	0"42	4
5	0"00	0"07	0"00	0"00	0"20	1"14	0"28	1"49	0"04	0"00	0"00	0"35	5
6	0"00	0"28	0"00	0"00	0"05	0"23	0"22	0"02	0"27	0"55	0"33	0"00	6
7	0"00	0"07	0"00	0"00	0"01	0"68	0"00	0"24	0"00	0"28	0"12	0"23	7
8	0"01	0"35	0"00	0"09	0"02	0"00	0"18	0"33	0"13	0"06	0"26	0"03	8
9	0"03	0"73	0"00	0"24	0"00	0"09	0"00	0"37	0"05	0"05	0"36	0"10	9
10	0"08	0"14	0"00	0"00	0"19	0"41	0"00	0"18	0"09	0"00	0"34	0"01	10
11	0"43	0"39	0"00	0"05	0"00	0"04	0"18	0"02	0"40	0"00	1"42	0"0[illegible]	11
12	0"02	0"03	0"00	0"04	0"00	0"02	0"38	0"02	0"07	0"26	0"15	0"00	12
13	0"00	0"00	0"19	0"00	0"05	0"01	0"28	0"07	0"00	0"00	0"00	0"00	13
14	0"12	0"14	0"00	0"01	0"02	1"27	0"20	0"98	0"01	0"00	0"52	0"02	14
15	0"30	0"30	0"00	0"18	0"18	0"00	0"21	0"27	0"00	0"00	0"00	0"04	15
16	0"52	0"11	0"00	0"39	0"32	0"28	0"10	0"63	0"26	0"00	0"00	0"00	16
17	0"03	0"05	0"00	0"18	0"03	0"14	0"56	0"33	0"05	0"00	0"09	0"00	17
18	0"35	0"00	0"00	0"12	0"00	0"72	0"60	0"13	0"00	0"00	0"84	0"00	18
19	0"20	0"28	0"00	0"03	0"00	0"00	0"05	1"14	0"03	0"02	0"00	0"02	19
20	0"01	0"13	0"06	0"00	0"00	0"10	0"00	0"05	0"00	0"00	0"12	0"00	20
21	0"55	0"05	0"16	0"00	0"17	0"13	0"02	0"22	0"00	0"00	0"02	0"00	21
22	0"35	0"09	0"00	0"07	0"28	0"05	0"03	0"00	0"00	0"00	0"05	0"00	22
23	0"27	0"00	0"00	0"31	0"63	0"23	0"31	0"00	0"00	0"00	1"12	0"34	23
24	0"06	0"32	0"00	0"07	0"47	0"00	0"04	0"00	0"00	0"00	0"09	0"07	24
25	0"06	0"78	0"00	0"28	0"08	0"00	0"05	0"00	0"00	0"00	0"07	0"13	25
26	0"01	0"07	0"00	0"53	0"00	0"00	0"00	0"00	0"00	0"00	0"56	0"04	26
27	0"60	0"03	0"00	0"02	0"12	0"00	0"45	0"00	0"00	0"29	1"63	0"05	27
28	0"44	0"18	0"00	0"04	0"11	0"00	0"21	0"00	0"00	0"00	0"00	0"04	28
29	0"18		0"00	0"04	0"24	0"00	0"22	0"00	0"00	0"82	0"02	0"00	29
30	0"00	✕	0"00	0"00	0"00	0"00	0"00	0"00	0"11	0"00	0"02	0"00	30
31	0"38	✕	0"00	✕	0"00	✕	0"12	0"00	✕	0"04	✕	0"08	31
TOTAL	5"09	4"67	0"41	3"79	3"23	6"90	5"32	6"50	3"47	2"65	10"41	2"39	YEAR'S TOTAL 54"83
Days with ·01 in. or more.	24	24	3	22	20	18	23	18	16	13	23	19	223
Days with ·04 in. or more.	17	20	3	19	15	16	21	14	14	11	20	14	184

40-9999

(Signed) J. Stanley Diggle per

[P.O.

2863

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Ashworth Moor (Daily only)
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 2 in.
,, Ground ,, Sea Level 955 66 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0"43	0"01	0"00	0"36	0"14	0"00	0"30	0"05	0"73	0"38	0"17	0"09	1
2	1"09	0"00	0"00	0"00	0"13	0"00	0"03	0"04	1"21	0"18	0"18	0"33	2
3	0"10	0"00	0"00	0"00	0"00	0"00	0"28	0"00	0"13	0"00	0"00	0"05	3
4	0"06	0"00	0"00	0"02	0"00	0"00	0"04	0"00	0"03	0"07	0"08	0"02	4
5	1"05	0"00	0"07	0"28	0"06	0"00	0"04	0"00	0"26	0"00	0"00	0"01	5
6	0"95	0"00	Snow 0"15	0"29	0"06	0"00	0"00	0"00	0"25	0"00	0"00	0"00	6
7	0"12	0"00	0"57	0"20	0"00	0"00	0"00	0"00	0"62	0"51	0"00	0"00	7
8	0"00	0"00	0"00	0"18	0"00	0"00	0"00	0"00	0"09	0"90	0"00	0"00	8
9	0"06	Snow 0"02	0"00	0"41	0"05	0"00	0"00	0"00	0"03	0"00	0"00	0"05	9
10	0"49	Snow 0"02	0"00	0"04	0"00	0"00	0"00	0"00	0"81	0"31	0"01	0"02	10
11	0"05	Snow 0"03	0"00	0"02	0"75	0"04	0"30	0"00	0"05	0"02	0"01	0"00	11
12	0"46	0"00	0"00	0"00	0"58	0"01	0"10	0"06	0"02	0"44	0"00	0"00	12
13	0"01	0"06	0"00	0"10	0"10	0"00	0"40	0"08	0"33	0"60	0"01	0"42	13
14	0"12	0"00	0"00	0"09	0"00	0"00	0"03	0"11	0"02	0"13	0"04	0"01	14
15	0"00	0"00	0"00	0"02	0"70	0"00	0"00	0"00	0"00	0"19	0"13	0"10	15
16	0"22	0"00	0"00	0"03	0"00	0"00	0"16	0"01	0"00	0"22	0"01	0"16	16
17	0"00	0"00	0"00	0"01	0"02	0"00	0"16	0"07	0"04	0"62	0"00	0"02	17
18	0"00	0"00	0"00	0"00	0"10	0"00	0"00	0"00	0"02	0"02	0"02	0"00	18
19	0"00	0"00	0"00	0"13	0"06	0"00	0"00	0"00	0"00	0"55	0"00	0"00	19
20	0"00	0"00	0"00	0"16	0"50	0"00	0"05	0"28	0"00	0"15	0"08	0"02	20
21	0"05	0"00	0"28	0"11	0"29	0"00	0"11	0"32	0"00	0"62	0"17	0"03	21
22	0"02	0"00	0"24	0"13	0"09	0"00	0"05	0"00	0"00	0"14	0"91	0"09	22
23	0"00	0"02	0"00	0"04	0"76	0"00	0"19	0"00	0"00	0"12	0"08	0"07	23
24	0"05	0"00	0"00	0"00	0"02	0"04	0"33	0"00	0"16	0"02	0"13	0"02	24
25	0"00	0"04	0"00	0"11	0"05	0"01	0"05	0"00	0"09	0"96	0"20	0"00	25
26	0"00	0"01	0"00	0"06	0"30	0"00	0"80	0"00	0"10	0"29	0"19	0"00	26
27	0"00	0"00	0"35	0"27	0"37	0"22	0"30	0"00	0"00	0"06	0"09	0"19	27
28	0"00	0"00	0"05	0"32	0"13	0"00	0"27	0"00	0"00	0"00	0"00	0"04	28
29	0"07	0"00	0"69	0"37	0"04	0"13	0"37	0"61	0"16	0"71	0"34	0"36	29
30	0"00	×	0"17	0"06	0"36	0"42	0"05	0"03	0"10	0"03	0"43	0"13	30
31	0"02	×	0"09	×	0"02	×	0"10	0"00	×	0"02	×	0"05	31
TOTAL	5"42	0"21	2"70	3"81	5"68	0"87	4"51	1"66	5"25	8"26	3"28	2"28	YEAR'S TOTAL 43"93
*Days with ·01 in. or more.	19	8	10	25	24	7	23	11	21	26	20	22	216
*Days with ·04 in. or more.	16	2	10	20	21	5	21	9	16	21	15	14	170

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*See Instruction 2 (*f*) on other side.

(Signed) J. Stanley Diggle Jr

~~[P.T.O.~~

COPY FOR OFFICIAL USE.

Section A for the entry of Daily Observations. Station No. 2863

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Ashworth Moor (Daily only)

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 2 in.

,, Ground ,, Sea Level 955"66 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0"04	0"59	0"04	0"00	0"00	0"00	0"00	0"03	0"08	0"00	0"34	0"00	1
2	0"44	0"00	0"20	0"32	0"00	0"14	0"00	0"10	0"00	0"00	0"00	0"00	2
3	0"01	0"67	0"43	0"00	0"52	0"00	0"00	0"00	0"00	0"03	0"04	0"00	3
4	0"22	0"13	0"20	0"00	0"14	0"00	0"00	0"00	0"00	0"00	0"00	0"00	4
5	0"19	0"17	0"06	0"00	0"10	0"00	0"00	0"00	0"00	0"00	0"06	0"00	5
6	0"01	0"14	0"00	0"00	0"33	0"00	0"00	0"00	0"00	0"00	0"00	0"02	6
7	0"10	0"41	0"05	0"00	0"06	0"00	0"20	0"05	0"00	0"68	0"00	0"01	7
8	0"38	0"15	0"16	0"12	0"03	0"24	0"18	0"02	0"00	0"00	0"02	0"05	8
9	0"00	0"36	0"00	0"18	0"05	0"00	0"83	0"03	0"00	0"64	0"18	0"00	9
10	0"16	0"00	0"00	0"00	0"00	0"03	0"04	0"00	0"00	1"40	0"26	0"00	10
11	0"00	0"00	0"00	0"00	0"00	0"00	0"36	0"00	0"00	0"28	0"00	Snow 0"06	11
12	0"03	0"00	0"00	0"00	0"00	0"16	0"27	0"00	0"00	0"12	0"00	Snow 0"07	12
13	0"00	0"00	0"02	0"00	0"20	0"00	0"24	0"06	0"00	0"16	0"28	0"00	13
14	0"19	0"00	0"06	0"00	0"02	0"00	0"12	0"08	0"00	0"02	0"39	0"01	14
15	0"33	0"00	0"07	0"00	0"40	0"02	0"05	0"14	0"00	0"21	0"33	0"00	15
16	0"06	0"03	0"20	0"01	0"03	0"39	0"00	0"00	0"00	0"32	0"05	0"00	16
17	0"00	0"00	0"88	0"00	0"00	0"72	0"00	0"15	0"08	0"01	0"05	0"00	17
18	0"10	0"04	0"20	0"00	0"11	0"48	0"00	0"07	0"00	0"00	0"03	0"00	18
19	0"00	0"00	0"24	0"00	0"00	0"10	0"08	0"04	0"77	0"00	0"15	0"02	19
20	0"00	0"12	0"00	0"00	0"04	0"15	0"00	0"55	0"00	0"00	0"00	0"00	20
21	0"00	0"00	0"00	0"00	0"00	0"00	0"00	0"46	0"10	0"00	0"00	0"00	21
22	0"00	0"00	0"00	0"00	0"00	0"00	0"00	0"11	0"00	0"09	0"00	0"04	22
23	0"00	0"00	0"00	0"36	0"04	0"01	0"00	0"02	0"02	0"12	0"00	0"00	23
24	0"00	0"00	0"00	0"26	0"10	0"05	0"00	0"00	0"63	0"02	0"00	0"00	24
25	0"00	Snow 0"27	0"00	0"16	0"01	0"00	0"00	0"00	0"05	0"00	0"00	0"10	25
26	0"00	0"48	0"00	0"43	0"00	0"00	0"00	0"00	0"00	0"30	0"00	0"01	26
27	0"00	0"02	0"00	0"00	0"18	0"00	0"00	0"00	0"00	0"00	0"00	0"00	27
28	0"00	0"00	0"00	0"07	0"00	0"00	0"06	0"00	0"00	0"19	0"00	0"00	28
29	0"00		0"00	0"02	0"00	0"00	0"10	0"00	0"00	0"00	0"00	Snow 0"03	29
30	0"04	×	0"00	0"05	0"06	0"00	0"33	0"00	0"00	0"32	0"00	0"29	30
31	0"37	×	0"05	×	0"00	×	0"27	0"22	×	0"21	×	0"00	31
TOTAL	2"57	3"58	2"86	1"98	2"02	2"49	3"01	2"13	1"73	4"99	2"18	0"72	YEAR'S TOTAL 30"26
*Days with ·01 in. or more.	16	14	15	11	17	12	14	16	7	17	13	12	164
*Days with .04 in. or more.	13	12	14	9	13	9	13	12	6	14	11	6	132

P. Pro. HEYWOOD & MIDDLETON WATER BOARD.

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*See Instruction 2 (*f*) on other side.

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(Signed) James [illegible]

MANAGER.

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Section **A** for the entry of Daily Observations. Station No. 2863

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Ashworth Moor (Daily only)
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 2 in.
,, Ground ,, Sea Level 955"66 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0"20	–	0"04	–	–	–	–	0"03	0"12	0"07	0"04	0"60		1
2	–	0"02	0"14	–	0"02	–	–	0"56	0"05	–	0"40	0"68		2
3	0"16	0"01	0"02	–	–	–	–	0"07	0"02	0"30	0"12	0"08		3
4	0"14	–	0"15	0"04	0"05	–	–	0"01	0"02	0"96	–	1"02		4
5	–	–	0"08	–	0"09	–	–	0"74	0"02	0"41	0"03	0"18		5
6	0"01	–	0"03	Snow 0"10	0"53	0"10	–	0"05	–	0"44	–	0"37		6
7	0"30	0"04	0"15	0"05	–	0"13	–	–	–	0"07	0"24	0"48		7
8	–	–	0"03	–	0"13	0"69	–	0"05	0"03	0"21	0"76	0"02		8
9	0"01	0"06	0"10	0"02	–	–	–	0"22	–	0"02	0"21	0"03		9
10	–	–	0"31	0"03	–	–	–	0"18	–	0"42	0"03	–		10
11	0"09	–	0"03	0"75	–	–	–	0"23	–	0"02	0"04	0"16		11
12	0"01	–	0"03	0"16	–	–	0"02	0"02	–	0"11	–	0"04		12
13	0"38	–	–	0"04	0"05	–	0"09	0"02	–	0"23	–	–		13
14	0"17	–	0"14	–	0"03	0"02	–	–	–	0"51	0"05	0"09		14
15	0"39	–	0"12	–	0"79	–	0"02	0"13	0"15	0"01	0"01	0"26		15
16	0"58	–	0"17	–	0"23	–	–	–	–	0"01	0"02	0"04		16
17	0"40	–	0"25	0"02	0"15	–	0"37	–	0"32	0"09	–	0"28		17
18	0"25	–	0"15	0"17	0"66	0"20	–	0"03	–	–	–	0"27		18
19	–	–	0"24	–	0"07	0"36	–	0"01	0"54	0"21	–	0"04		19
20	–	–	0"03	0"16	0"49	–	–	0"06	0"16	0"15	0"01	–		20
21	0"10	–	0"02	–	0"02	0"62	–	0"07	0"08	0"07	–	–		21
22	0"05	–	0"03	–	–	–	–	0"14	0"62	0"10	0"01	0"01		22
23	0"02	–	0"14	0"45	0"02	–	0"61	0"02	–	0"27	0"06	0"06		23
24	–	0"19	0"04	0"21	–	0"03	–	–	0"42	0"22	–	–		24
25	0"10	0"14	–	0"12	0"03	–	0"23	–	0"30	0"27	–	0"49		25
26	0"12	–	0"01	0"16	–	0"13	0"29	–	0"25	0"02	0"03	0"07		26
27	–	–	0"00	0"11	–	0"35	0"33	–	0"02	0"27	0"03	0"36		27
28	–	–	0"00	0"02	–	0"22	0"11	0"36	0"00	0"21	–	0"82		28
29	–	×	0"00	–	–	–	0"05	0"75	0"44	0"07	–	0"10		29
30	0"08	×	0"00	–	–	–	0"08	0"09	0"31	0"25	–	0"04		30
31	0"02	×	0"00	×	–	×	0"33	0"07	×	0"08	×	0"10		31
													Year's Total	
TOTAL	3"58	0"46	2"45	2"61	3"36	2"85	2"53	3"91	3"84	6"04	2"09	6"69	40"41	
*Days with ·01 in. or more.	5	6	24	17	16	11	12	23	18	29	17	26	204	
*Days with .04 in. or more.	16	4	15	13	11	9	10	16	13	24	9	23	173	

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*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) James Butterworth

MANAGER.

[P.T.O.

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COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2863

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Ashworth Moor (Daily only)
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 2 in.
,, Ground ,, Sea Level 955"66 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0"64	0"41	0"03	0"03	—	0"05	0"10	—	0"13	1"05	0"15	0"16		1
2	0"02	0"15	0"04	—	—	0"25	0"02	0"01	0"03	0"13	0"07	0"27		2
3	0"08	0"76	0"11	0"12	—	0"04	0"50	—	0"26	0"03	0"08	0"19		3
4	—	0"03	0"08	0"02	—	0"40	0"07	—	0"24	0"23	—	0"02		4
5	—	0"50	0"14	0"18	—	0"22	0"03	—	0"25	0"03	0"17	0"26		5
6	—	0"02	—	0"11	—	0"27	—	—	—	—	—	0"01		6
7	Snow 0"01	—	—	0"15	—	0"12	—	—	—	0"28	0"14	0"28		7
8	—	—	—	0"10	—	—	—	—	—	0"26	0"05	0"55		8
9	0"02	—	—	0"40	—	0"05	—	—	—	1"75	0"17	—		9
10	—	0"04	—	0"24	—	—	0"02	—	—	0"49	0"12	—		10
11	0"40	0"12	—	—	—	0"13	—	0"01	—	0"30	0"06	0"01		11
12	0"04	0"25	—	—	—	0"65	—	—	0"05	0"02	—	—		12
13	0"15	0"04	—	0"10	0"20	—	—	—	0"15	0"08	0"02	—		13
14	0"01	—	—	0"09	0"05	0"17	—	—	0"11	0"01	1"19	Snow 0"20		14
15	—	1"67	—	0"40	0"06	—	0"01	—	0"69	0"29	0"06	0"39		15
16	—	0"31	0"09	0"25	0"03	0"35	0"07	—	0"70	0"01	0"18	—		16
17	—	0"02	—	0"28	0"48	0"16	0"30	—	0"30	0"04	0"46	—		17
18	—	0"03	—	0"08	0"10	0"05	0"26	—	0"55	0"33	0"11	—		18
19	—	0"08	—	0"14	—	0"42	0"25	—	—	0"13	0"26	—		19
20	—	0"47	—	0"45	—	0"21	0"04	—	—	—	0"04	—		20
21	—	0"14	0"01	—	—	0"03	—	—	1"78	0"15	0"07	Snow 0"03		21
22	—	Snow 0"17	0"12	0"17	—	—	—	—	0"09	—	0"01	—		22
23	0"03	0"02	0"71	0"18	—	—	—	0"35	0"03	0"39	—	—		23
24	0"46	0"38	0"04	0"03	—	—	—	—	1"68	0"08	0"01	0"22		24
25	0"05	0"02	0"20	—	—	0"11	—	—	—	—	0"08	0"03		25
26	—	—	—	—	—	—	0"04	1"17	0"56	0"48	0"16	0"24		26
27	—	0"04	—	—	0"02	0"03	0"36	—	0"26	1"03	0"54	0"06		27
28	0"04	0"11	—	—	0"02	—	—	—	0"11	0"49	0"05	0"01		28
29	—	—	0"03	—	—	—	—	0"03	0"27	0"24	0"06	0"20		29
30	0"09	✕	—	—	—	0"22	—	0"27	0"18	0"59	0"53	0"08		30
31	0"03 ✓	✕ ✓	0"02 ✓	✕ ✓	— ✓	✕ ✓	— ✓	— ✓	✕ ✓	0"19 ✓	✕ ✓	0"52 ✓	Year's Total.	31
TOTAL	2"07	5"78	1"62	3"50	0"96	3"93	2"07	1"84	8"42	9"10	4"84	3"73	47"86	✓
* Days with .01 in. or more.	15 ✓	23 ✓	13 ✓	20 ✓	8 ✓	20 ✓	14 ✓	6 ✓	21 ✓	27 ✓	26 ✓	20 ✓	213	✓
* Days with .04 in. or more.	9 ✓	17 ✓	9 ✓	17 ✓	5 ✓	18 ✓	10 ✓	3 ✓	19 ✓	~~22~~ 21	23 ✓	14 ✓	~~172~~ 165	

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† Spare column, no entries required.

* See Instruction 2 (f) on other side.

P. Pro. HEYWOOD & MIDDLETON WATER BOARD.

(Signed) James Entwistle

MANAGER.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2863

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Ashworth Moor (Daily only).
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 2 in.
" Ground " Sea Level 955″66 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0″02	0″13	0″03	0″20	—	—	—	0″49	0″10	—	0″25	0″50		1
2	0″03	Snow 0″12	—	0″03	—	0″34	—	0″13	0″05	—	0″05	0″22		2
3	—	—	—	—	—	0″36	0″05	0″24	1″21	—	—	0″09		3
4	0″39	Snow 0″37	0″24	—	—	0″01	0″01	0″13	0″31	—	0″21	0″25		4
5	0″08	0″04	0″50	—	—	0″02	0″01	0″41	0″48	—	0″04	0″18		5
6	0″07	—	0″02	—	—	0″02	0″06	0″45	0″85	—	0″14	—		6
7	—	—	0″17	—	—	—	0″26	—	0″90	—	0″18	0″35		7
8	0″39	—	0″31	—	—	—	—	—	0″01	—	0″48	0″15		8
9	0″23	—	0″03	—	—	0″01	0″26	—	0″08	—	0″71	—		9
10	0″07	—	—	—	—	—	0″53	—	0″01	—	0″36	—		10
11	—	—	—	0″02	—	0″15	0″34	0″08	0″07	—	0″65	0″05		11
12	—	—	—	0″08	0″04	0″63	0″84	0″01	0″53	0″09	0″121	0″02		12
13	—	—	—	0″05	0″03	0″01	0″08	[illegible]	—	0″27	0″02	0″48		13
14	—	—	—	0″05	—	0″38	0″02	0″18	0″25	0″13	0″28	0″65		14
15	Snow 0″27	—	—	0″09	0″06	0″13	0″14	0″33	0″08	—	0″53	0″06		15
16	—	0″12	0″01	0″03	—	—	0″03	—	—	0″04	0″78	0″02		16
17	0″23	0″34	0″02	0″03	0″02	—	0″13	0″19	—	0″83	0″06	0″18		17
18	—	0″05	—	0″02	—	0″14	0″46	0″20	—	0″90	—	—		18
19	0″16	0″31	0″04	0″02	—	0″06	0″18	0″49	—	0″13	—	—		19
20	Snow 0″22	0″06	0″02	—	—	—	0″02	0″01	—	0″04	—	—		20
21	Snow 0″15	—	—	0″03	—	0″02	—	—	—	0″09	—	0″01		21
22	0″17	(Snow) 0″40	0″05	—	0″01	1″12	0″28	—	—	0″01	—	0″05		22
23	0″02	0″03	0″12	0″29	0″03	—	0″84	0″02	—	0″09	—	—		23
24	0″09	0″04	—	0″06	0″36	—	—	—	0″12	0″47	—	0″05		24
25	0″52	—	0″01	0″03	—	—	0″05	—	0″38	0″30	—	0″02		25
26	0″05	0″35	0″01	0″03	—	—	—	—	0″15	0″75	—	0″01		26
27	0″81	0″02	0″04	—	—	—	—	—	0″14	0″35	—	—		27
28	0″26	0″34	0″12	—	—	—	0″09	—	—	—	0″02	0″12		28
29	0″10	Snow 0″46	0″89	—	0″04	0″63	—	—	—	0″12	0″16	0″09		29
30	0″30	✕	0″04	—	0″58	0″09	0″36	0″01	—	0″62	0″07	0″06		30
31	0″03	✕	0″03	✕	0″02	✕	0″07	0″02	✕	—	✕	0″68		31
													Year's Total	
TOTAL	4″66	3″20	2″70	1″06	1″19	4″12	5″11	3″39	5″72	5″63	5″61	4″09	46″43	✓
* Days with .01 in. or more.	23	16	20	16	10	17	23	17	18	17	19	23	219	✓
* Days with .04 in. or more.	19	14	11	7	5	11	18	12	16	16	17	18	164	✓

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) James Entwistle [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2863

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937

Kept at Ashworth Moor (Daily only).

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 2 in.

,, Ground ,, Sea Level 955"66 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

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Jan. 1, following ✓

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0"02	0"13	Snow 0"16	—	—	—	0"07	—	0"32	—	—	0"25		1
2	0"30	0"33	0"07	0"27	—	0"01	—	—	0"01	—	—	0"01		2
3	—	0"21	0"04	0"05	0"04	0"65	0"18	—	0"01	—	—	0"02		3
4	0"22	0"04	0"11	0"11	0"10	0"01	0"03	—	0"02	—	—	Snow 0"70		4
5	1"32	—	0"03	0"01	0"01	0"03	0"01	—	—	—	—	—		5
6	0"06	—	0"02	0"14	0"09	—	—	0"45	0"06	—	0"03	—		6
7	0"04	0"10	—	0"36	0"02	0"08	—	—	0"08	—	—	—		7
8	—	Snow 0"77	0"01	0"01	—	0"06	0"12	—	—	—	0"01	0"03		8
9	0"03	0"15	—	0"05	0"32	0"01	0"40	0"29	—	—	—	—		9
10	0"01	0"09	—	—	—	0"10	0"01	—	—	—	—	Snow 0"32		10
11	—	0"02	0"06	—	0"03	—	0"02	—	—	—	—	0"02		11
12	0"18	0"53	0"11	—	0"01	0"05	0"05	0"30	0"28	—	—	Snow 0"30		12
13	—	0"21	0"04	—	—	0"38	—	0"26	0"02	—	—	0"25		13
14	—	0"11	0"23	—	—	—	—	0"35	0"16	0"01	—	0"20		14
15	0"25	0"55	0"01	0"44	—	—	0"40	—	0"46	—	—	0"03		15
16	0"05	0"40	0"13	0"70	0"05	0"01	—	0"24	0"11	—	—	0"02		16
17	0"07	0"06	0"30	0"23	—	0"01	—	0"03	0"09	—	—	—		17
18	0"34	0"37	0"10	0"16	—	—	—	0"36	—	—	0"33	—		18
19	Snow 0"20	0"27	0"06	0"23	—	0"05	0"04	0"04	—	—	0"55	—		19
20	0"10	0"16	—	0"12	0"39	0"17	—	—	—	—	—	0"20		20
21	—	0"06	0"02	0"10	0"03	—	0"54	—	—	0"12	—	0"25		21
22	0"09	0"02	0"19	0"05	0"05	—	0"28	—	—	0"50	0"26	0"13		22
23	0"17	—	—	—	0"46	—	0"30	—	—	0"28	0"13	—		23
24	0"08	0"15	0"13	—	0"04	—	0"05	—	0"19	0"31	—	0"08		24
25	0"04	0"55	—	—	—	—	—	0"19	—	0"04	—	0"04		25
26	—	0"27	0"04	—	0"46	—	—	—	0"11	—	—	0"03		26
27	—	Snow 0"33	0"02	0"15	—	—	—	—	—	0"26	—	0"01		27
28	—	Snow 0"04	—	—	—	0"06	—	—	—	0"17	—	—		28
29	Snow 0"01	✕	—	—	—	0"01	—	—	—	0"05	0"18	—		29
30	0"04	✕	—	—	—	0"32	—	0"15	—	0"13	0"57	0"02		30
31	0"30	✕	—	✕	—	✕	—	0"11	✕	0"24	✕	—		31
TOTAL	3"92	5"90	1"88	3"18	2"10	2"01	2"50	2"77	1"92	3"11	2"06	2"91	Year's Total 33.26	✓ ✓
* Days with .01 in. or more.	22	25	21	17	15	17	15	12	14	11	8	20	197	✓ ✓
* Days with .04 in. or more.	18	23	15	15	10	10	11	11	10	10	6	11	150	✓ ✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) James Butterworth [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2863

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

Kept at Ashworth Moor (Daily only)

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 2 in.

,, Ground ,, Sea Level 955.66 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

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Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	—	0.02	—	0.01	—	0.71	0.04	0.13	—	0.16	0.13	0.19		1
2	0.02	0.04	—	0.50	0.04	0.40	0.01	—	—	1.53	0.20	0.26		2
3	0.01	—	—	0.01	—	0.02	0.26	—	0.18	1.43	0.27	0.05		3
4	0.03	0.02	—	0.06	—	0.02	0.07	0.62	—	0.35	0.29	1.10		4
5	0.02	0.02	—	0.05	—	0.10	0.38	0.01	0.11	0.52	0.01	0.03		5
6	0.23	—	—	—	—	0.05	0.41	—	0.21	0.30	0.01	0.09		6
7	0.27	—	0.01	—	—	—	0.64	0.02	0.17	0.26	—	—		7
8	Sleet 0.58	—	—	—	—	—	0.37	—	—	1.25	—	0.33		8
9	0.10	0.57	0.14	—	—	0.21	0.12	0.01	—	0.09	—	0.31		9
10	0.01	0.05	0.06	—	—	0.04	0.60	—	0.01	0.10	—	0.05		10
11	0.18	0.08	—	—	0.05	0.04	0.09	0.65	0.04	0.18	0.08	0.08		11
12	0.37	—	—	—	0.20	—	—	0.01	—	1.50	0.35	0.02		12
13	0.01	0.09	—	—	0.04	—	0.05	—	0.03	0.24	0.23	0.31		13
14	0.30	0.03	—	—	0.18	—	0.13	—	0.04	0.02	0.13	0.01		14
15	0.29	—	0.02	—	—	0.02	0.40	0.31	—	0.05	—	0.26		15
16	0.52	—	0.07	—	0.10	—	0.22	0.19	—	0.09	0.26	0.17		16
17	—	—	—	—	0.32	—	0.16	0.22	0.07	0.43	0.02	—		17
18	0.09	—	—	—	0.09	0.12	—	0.54	0.10	0.49	0.33	—		18
19	—	—	—	—	—	0.03	—	0.24	0.10	—	0.01	Snow 0.09		19
20	0.31	—	0.03	—	—	—	—	0.03	0.19	—	0.46	Snow 0.02		20
21	—	—	0.04	—	—	—	—	0.09	0.01	—	0.04	Snow 0.03		21
22	—	—	—	0.03	—	0.33	—	—	—	—	0.44	0.02		22
23	0.01	—	—	—	0.22	0.52	—	0.02	0.06	—	0.47	—		23
24	0.27	0.11	0.20	—	0.03	0.22	—	0.57	0.02	—	0.19	—		24
25	0.12	0.39	0.08	—	0.02	0.15	0.25	0.03	—	0.57	0.70	Sleet 0.04		25
26	0.15	0.44	0.27	—	0.13	0.14	—	—	0.02	0.30	0.17	0.19		26
27	0.45	0.16	0.02	—	0.46	0.43	0.19	0.17	0.01	—	0.48	—		27
28	0.26	0.08	0.14	—	0.14	0.90	0.13	0.16	0.09	0.03	0.02	0.11		28
29	0.11	—	0.16	—	1.11	0.35	0.31	—	—	0.25	0.08	0.40		29
30	0.30	✕	—	—	0.09	0.05	0.04	—	0.53	0.02	0.34	0.09		30
31	0.20	✕	0.02	✕	0.36	✕	—	—	✕	0.52	✕	0.85		31
													Year's Total	
TOTAL	5.21	2.10	1.26	0.66	3.58	4.83	4.87	4.02	1.99	10.68	5.71	5.10	50.01	✓
* Days with .01 in. or more.	26	14	14	6	17	21	21	19	19	24	25	25	231	✓
* Days with .04 in. or more.	19	10	9	3	15	16	20	12	13	21	20	19	177	✓

† Spare column, no entries required.

(*Signed*) James Butterfield P.T.O.

* See Instruction 3 (f) on other side.

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Section **A** for the entry of Daily Observations

Station No. 2863

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0"39	—	0"23	0"11	—	—	0"03	0"12	0"04	0"04	—	0"41		1
2	0"12	—	0"01	0"10	—	—	0"61	0"64	0"78	—	0"05	0"17		2
3	0"06	—	—	0"12	—	—	—	0"17	0"04	—	0"12	0"51		3
4	Snow 0"12	0"01	0"36	0"34	—	—	0"29	—	—	0"04	0"04	0"60		4
5	—	—	—	—	0"33	—	0"30	0"05	—	0"31	0"25	0"03		5
6	0"70	0"33	0"01	—	—	—	0"55	0"01	—	0"01	0"16	—		6
7	0"25	0"47	0"13	—	0"22	—	0"06	0"02	—	—	0"08	0"46		7
8	0"23	0"13	0"18	0"02	—	—	0"53	0"08	—	0"08	0"43	0"58		8
9	0"09	0"52	—	—	—	—	0"03	0"63	—	0"49	0"05	0"55		9
10	0"03	0"02	0"04	—	—	0"14	—	0"02	0"45	0"24	0"03	0"13		10
11	Snow 0"48	0"11	0"32	—	—	0"22	—	—	—	—	—	—		11
12	Snow 0"21	0"06	—	—	—	0"06	—	—	0"01	—	—	—		12
13	0"04	—	0"02	0"28	0"13	0"18	0"06	—	0"05	0"03	0"03	—		13
14	0"86	0"01	—	0"04	0"57	0"53	0"26	—	—	—	0"28	—		14
15	0"09	0"09	0"01	0"62	0"06	1"30	0"19	—	—	—	0"13	—		15
16	0"12	—	0"05	0"01	0"23	—	0"05	—	—	0"03	0"11	—		16
17	0"79	0"32	0"02	0"03	0"07	0"03	0"02	—	—	0"17	0"09	—		17
18	0"07	0"18	0"02	—	—	0"20	0"26	—	—	—	0"76	—		18
19	0"26	—	—	—	0"01	0"01	0"15	—	0"01	—	0"02	—		19
20	0"09	—	—	—	0"02	0"10	0"12	0"08	—	—	—	—		20
21	0"12	0"15	0"46	0"09	0"04	—	0"07	0"24	0"02	—	—	—		21
22	0"44	0"20	0"13	0"01	0"02	—	0"06	—	—	0"03	0"86	—		22
23	0"02	0"35	0"02	0"12	—	0"03	0"05	—	—	0"57	0"20	0"03		23
24	Snow 0"02	0"12	—	0"02	—	0"01	0"04	—	—	0"08	0"02	—		24
25	0"06	0"13	0"01	—	—	—	0"02	—	—	—	1"45	—		25
26	0"03	0"02	—	—	—	—	—	1"29	—	0"16	0"47	0"04		26
27	0"01	Rain & Snow 1"56	0"14	—	—	0"54	0"06	0"03	—	0"01	0"29	Rain & Snow 0"05		27
28	—	0"13	0"12	0"01	—	0"20	0"78	—	—	—	0"06	—		28
29	—		0"01	—	—	—	1"37	—	—	0"17	0"26	—		29
30	—	▨	—	—	—	0"09	0"12	—	—	—	0"43	—		30
31	—	▨	—	▨	—	▨	0"16	0"02	▨	—	▨	—		31
													Year's Total	
TOTAL	5"40	4"91	2"28	1"92	1"70	3"64	6"24	3"40	1"40	2"46	7"57	3"59	44"51	
* Days with .01 in. or more.	26	20	20	15	11	15	26	14	8	16	25	12	214	
* Days with .04 in. or more.	21	16	11	9	8	11	22	8	5	11	21	10	153	

† Spare column, no entries required.

(Signed) J. Entwistle

* See Instruction 3 (f) on other side.

P.T.O.

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Station No. 2863

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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	–	Snow 0"02	–	0"26	–	–	0"01	–	–	–	0"75	0"27		1
2	–	–	–	0"32	–	–	0"11	–	–	–	0"46	0"27		2
3	–	0"05	–	0"15	–	–	0"09	–	–	0"03	0"08	0"20		3
4	–	0"13	–	0"06	–	–	0"07	–	–	0"21	0"22	0"21		4
5	–	–	–	–	0"12	–	0"07	–	–	0"70	0"05	0"39		5
6	0"08	0"28	–	–	–	–	0"04	–	–	0"49	0"05	0"07		6
7	0"12	0"26	–	0"22	0"08	–	0"02	0"24	0"09	0"04	0"01	–		7
8	–	–	0"03	0"10	–	–	0"01	0"03	–	0"37	0"09	0"31		8
9	–	–	0"13	–	–	–	1"07	0"11	0"33	0"53	1"44	0"19		9
10	–	–	0"06	–	–	–	0"55	0"29	–	0"19	0"34	Rain & Snow 0"62		10
11	–	Snow 0"02	0"10	0"05	–	0"03	0"11	–	–	–	1"61	–		11
12	–	–	0"44	–	–	–	0"15	0"08	0"37	–	0"26	–		12
13	–	Snow 0"03	0"12	0"02	–	–	–	0"13	0"47	–	0"06	0"02		13
14	–	Snow 0"11	–	0"18	0"11	–	0"06	0"08	0"17	–	0"09	0"59		14
15	–	–	–	0"01	0"16	0"05	–	–	0"02	–	0"05	0"05		15
16	Snow 0"02	–	0"21	0"10	–	–	0"42	–	1"27	0"44	0"04	0"08		16
17	–	–	0"55	–	0"14	–	0"27	–	0"10	–	0"62	0"01		17
18	Snow 0"04	Rain & Snow 0"09	0"18	0"39	–	–	0"01	0"23	0"25	0"01	0"01	0"35		18
19	–	0"28	0"16	0"10	–	–	0"23	–	0"39	0"01	0"32	0"01		19
20	–	0"02	0"05	0"33	–	–	0"03	0"33	0"16	0"12	0"15	–		20
21	–	–	0"29	0"03	–	0"34	0"05	0"02	–	0"03	0"61	–		21
22	–	0"02	0"09	–	0"19	0"04	–	0"05	0"29	–	–	–		22
23	–	0"18	0"03	0"24	0"01	–	0"23	–	0"06	–	0"10	–		23
24	Rain & Snow 0"46	0"02	0"05	0"01	–	–	0"04	–	0"03	0"01	–	0"04		24
25	Snow 0"06	–	–	–	0"01	0"04	0"02	–	–	0"04	–	–		25
26	Snow 0"26	0"19	0"23	0"03	0"02	0"05	0"03	–	–	–	0"03	–		26
27	Snow 0"87	0"79	–	0"04	0"02	–	0"18	–	–	–	0"09	–		27
28	Snow 0"78	0"30	–	–	0"08	–	–	0"15	–	–	–	0"03		28
29	–	–	0"39	0"02	–	0"28	0"02	–	–	0"02	–	0"70		29
30	–	✕	–	0"06	–	–	–	–	–	0"51	0"02	0"25		30
31	Snow 0"12	✕	0"12	✕	0"03	✕	–	0"03	✕	0"82	✕	–		31
TOTAL	2"81	2"79	3"20	2"72	0"97	0"83	3"89	1"77	4"10	4"62	7"45	4"66	Year's Total 39"81	
* Days with .01 in. or more.	10	17	18	21	12	7	25	13	14	18	25	20	200	
* Days with .04 in. or more.	9	11	16	15	7	6	17	10	12	13	20	16	152	

† Spare column, no entries required.

(*Signed*) G. Diggle

* See Instruction 3 (f) on other side.

[P.T.O.

648289/25

2864

FORM 1090. **B** Mont
Sum

2864
EGERTON (OLD GAUGE)
1931 —— 40

780502

*** The following register of monthly
&c., is NOT required if daily or
values are given on the other side

also the space for

er should be sent:—

n, Lancashire

RAINFALL IN 1931

At Egerton

In the County of Lancash

Summer 9.0 am

Rain Gauge
- Diameter of Funnel 5
- *Height of Top above Ground* ft
- *Height of Ground above Sea Level* 6

Direction from gauge

Direction from gauge

Month.	Total Depth.	Greatest Fall in 24 hours.		Num Days ·01 in or mor
	Inches.	Inches.	Date.	*
JAN.	7·65			
FEB.	6·43			
MAR.	·68			
APRIL	4·14			
MAY	2·94			
JUNE	6·46			
JULY	5·25			
AUG.	6·13			
SEPT.	4·77			
OCT.	3·15			
NOV.	9·36			
DEC.	2·90			
Total	59·86			

Directions from gauge ..

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Signature Edmund H. Ashworth.

*See Instruction 2 (*f*) below.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

64828525

2864

FORM 1090.

B Mont
Summary.

Particulars of Station.

⁎ The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1931.

At Egerton

In the County of Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground ft. 12 in.

Height of Ground above Sea Level 633 ft.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	7·65				
FEB.	6·43				
MAR.	·68				
APRIL	4·14				
MAY	2·94				
JUNE	6·46				
JULY	5·25				
AUG.	6·13				
SEPT.	4·77				
OCT.	3·15				
NOV.	9·36				
DEC.	2·90				
Total	59·86				

Signature, Edmund H. Ashworth.

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Edmund H. Ashworth,
Egerton House, Egerton, Lancashire

Hour of observation by the clock—in Winter 9.0 am in Summer 9.0 am

Nearest Railway Station Bromley Cross Distance Direction from gauge

Nearest Parish Church at Distance Direction from gauge

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r|}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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Old gauge

FORM 1090.

B Monthly Summary.

Reference No. 648289/25 -

C Particulars of Station.

2864

* The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Egerton House, Egerton

In the County of Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground — *ft.* 12 *in.*

Height of Ground above Sea Level 633 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	6·26				
FEB.	0·16				
MAR.	3·72				
APRIL	4·35				
MAY	5·37				
JUNE	·89				
JULY	4·26				
AUG.	1·55				
SEPT.	6·69				
OCT.	9·86				
NOV.	4·26				
DEC.	2·85				
Total	50·22				

Signature Edmund H. Ashworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Edmund H. Ashworth
Egerton House, Egerton, Nr Bolton

Hour of observation by the clock—in Winter 9 am in Summer 9 am

Nearest Railway Station Distance Direction from gauge —

Nearest Parish Church at Distance Direction from gauge

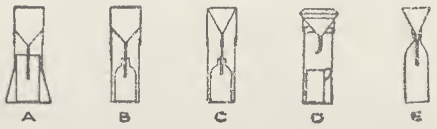
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{c}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2864

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933

At Egerton House, Egerton

In the County of Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground — *ft.* 12 *in.*
Height of Ground above Sea Level 633 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
	Inches	Inches	Date.	·01 in. or more *	·04 in. or more *
JAN.	3·19				
FEB.	4·68				
MAR.	3·41				
APRIL	1·95				
MAY	2·12				
JUNE	2·85				
JULY	3·17				
AUG.	2·80				
SEPT.	1·05				
OCT.	5·17				
NOV.	2·74				
DEC.	·76				
Total	33·89				

Signature Edmund H. Ashworth

Old Gauge.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Edmund H. Ashworth,
Egerton House, Egerton, Bolton

Hour of observation by the clock—in Winter 9.0 am in Summer 9.0 am

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in British Rainfall, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

M.O. 8 JAN 1934

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(457) Wt.9673/738 16000 8/32. Gp. 119/110.

FORM 1090.

B Monthly Summary.

Old gauge

C Particulars of Station.

2864

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Egerton House, Egerton

In the County of Lancaster

Rain Gauge
Diameter of Funnel................in.
Height of Top above Ground..........ft..........in.
Height of Ground above Sea Level..........ft.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·43				
FEB.	·50				
MAR.	3·46				
APRIL	3·30				
MAY	4·57				
JUNE	2·85				
JULY	2·19				
AUG.	6·01				
SEPT.	4·26				
OCT.	7·01				
NOV.	3·08				
DEC.	8·29				
Total	49·95				

Signature Edmund H. Ashworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter..........in Summer..........

Nearest Railway Station.......... Distance.......... Direction from gauge

Nearest Parish Church at.......... Distance.......... Direction from gauge

Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move.......... Distance.......... Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

A

B

C

D

E

If you know of any record of rainfall not quoted **in British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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(586) Wt.283/202 16,000 5/34. Gp.119/110.

Old Gauge

FORM 1090. **B** Monthly Summary.

/ 2864

C Particulars of Station,

. The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Egerton House

In the County of Egerton Bolton Lancaster

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* – *ft.* 12 *in.*
- *Height of Ground above Sea Level* 633 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	2·96				
FEB.	7·35				
MAR.	1·84				
APRIL	4·18				
MAY	1·58				
JUNE	4·76				
JULY	2·44				
AUG.	1·19				
SEPT.	8·71				
OCT.	10·16				
NOV.	5·67				
DEC.	4·61				
TOTAL	55·43				

Signature Edmund H. Ashworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :— Edmund Heck Ashworth
Egerton House, Egerton, Lancashire

Hour of observation by the clock—in Winter 9 am in Summer 9 am

Nearest Railway Station Bromley Cross Distance Direction from gauge

Nearest Parish Church at Distance Direction from gauge

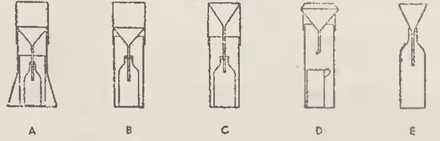
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or ~~self~~-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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Wt.3430/1690 15,000 2/35 W. H. & S. 668/91.

FORM 1090.

2864

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

Old

RAINFALL IN 1936

At Egerton House, Egerton Bolton

In the County of Lancashire

Rain Gauge { Diameter of Funnel 5 in.

Height of Top above Ground ft. 12 in.

Height of Ground above Sea Level 633 ft.

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·41				
FEB.	3·28				
MAR.	3·61				
APRIL	1·22				
MAY	·86				
JUNE	4·34				
JULY	5·39				
AUG.	3·81				
SEPT.	6·08				
OCT.	5·49				
NOV.	7·11				
DEC.	6·11				
TOTAL	52·71 ✓				

Signature Edmund H. Ashworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Edmund H Ashworth

Egerton House Egerton Bolton

Hour of observation by the clock—in Winter 9. 0 am in Summer 9. 0 am

Nearest Railway Station........ Distance........ Direction from gauge........

Nearest Parish Church at........ Distance........ Direction from gauge........

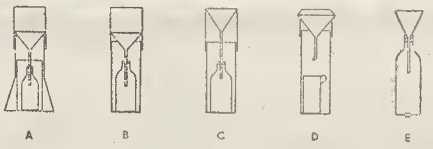
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move........ Distance........ Direction........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

M.O. 7
14 JAN. 1937

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}$ ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Old gauge

2864

FORM 1090.

B Monthly Summary.

. The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937

At Egerton House, Egerton

In the County of Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* ......*ft.* ......*in.*
- *Height of Ground above Sea Level* ......*ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·09				
FEB.	7·81				
MAR.	2·05				
APRIL	5·65				
MAY	1·73				
JUNE	2·12				
JULY	2·40				
AUG.	3·82				
SEPT.	2·12				
OCT.	2·41				
NOV.	2·01				
DEC.	3·59				
TOTAL	39·80				

Signature Edmund H. Ashworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Edmund H. Ashworth

Egerton House Egerton Bolton

Hour of observation by the clock—in Winter ...... in Summer ......

Nearest Railway Station ...... Distance ...... Direction from gauge ......

Nearest Parish Church at ...... Distance ...... Direction from gauge ......

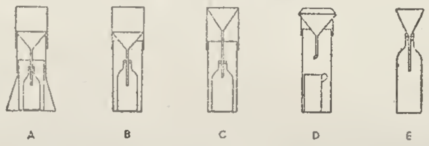
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move ...... Distance ...... Direction ......

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

......

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
  (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
  (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005 : this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Old Gauge

FORM 1090

B Monthly Summary.

2864

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938

At Egerton House, Egerton, Bolton

In the County of Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* ft. 12 in.
- *Height of Ground above Sea Level* 633 ft.

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·34				
FEB.	2·14				
MAR.	1·76				
APRIL	·91				
MAY	4·71				
JUNE	5·49				
JULY	5·86				
AUG.	4·23				
SEPT.	3·33				
OCT.	11·25				
NOV.	6·43				
DEC.	6·54				
TOTAL	58·99				

Signature Edmund H. Ashworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Edmund H Ashworth
Egerton House, Egerton, Bolton

Hour of observation by the clock—in Winter 9 pm in Summer 9 pm

Nearest Railway Station Bromley Cross LMS Distance .... Direction from gauge ....

Nearest Parish Church at Egerton Distance .... Direction from gauge ....

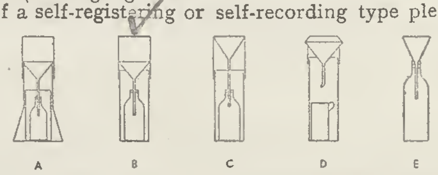
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

M.O. 7
1 JAN. 1939

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

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9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

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(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939

At Egerton House, Egerton

In the County of Lancaster

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 12 *in.*
- *Height of Ground above Sea Level* 633 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·46				
FEB.	5·86				
MAR.	2·46				
APRIL	2·93				
MAY	1·17				
JUNE	3·78				
JULY	9·21				
AUG.	2·42				
SEPT.	1·50				
OCT.	2·64				
NOV.	9·34				
DEC.	3·79				
TOTAL	49·56 ~~48·56~~				

Signature Edmund H. Ashworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Old Gauge

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Edmund Ashworth
Egerton House, Egerton, Bolton

Hour of observation by the clock—in Winter 9. 0 am in Summer 9. 0 am

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

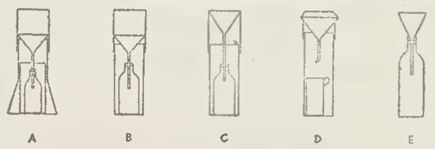
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

29 FEB. 1940

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Old Gauge

2864

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN ~~193~~ 1940....

At Egerton, Lancashire

In the County of Lancaster

Rain Gauge
Diameter of Funnel.......5.......in.
Height of Top above Ground.......*ft.* 12 *in.*
Height of Ground above Sea Level....633....*ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	2·82				
FEB.	3·25				
MAR.	3·39				
APRIL	3·47				
MAY	0·65				
JUNE	1·11				
JULY	5·86				
AUG.	2·34				
SEPT.	5·09				
OCT.	5·63				
NOV.	8·33				
DEC.	7·15				
TOTAL	49·09				

Signature Edmund H. Ashworth.

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Edmund Hick Ashworth,
Egerton House, Egerton, Lancashire

Hour of observation by the clock—in Winter 9.0 a.m. in Summer 9.0 a.m.

Nearest Railway Station Bromley Cross Distance.............. Direction from gauge..........

Nearest Parish Church at.............................. Distance.............. Direction from gauge..........

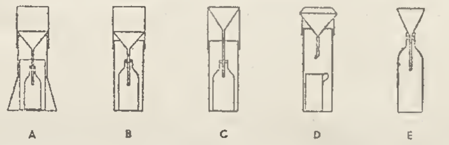
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move.................................. Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

FEB 1941
B. R.

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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648289/2

2865

Form 1090.

B Montl
Sumr

—

2865
EGERTON (NEW GAUGE)
1931 —— 40

780502

*** The following register of monthly
&c., is NOT required if daily or
values are given on the other side.

also the space for

r should be sent:—

n, Lancashire

RAINFALL IN 1931

At Egerton

In the County of Lancash

Summer 9.0 am

Diameter of Funnel

Direction from gauge

Height of Top above Ground ft. 1

Direction from gauge

Height of Ground above Sea Level 6.

Rain Gauge

Month.	Total Depth.	Greatest Fall in 24 hours.		Number Days ·01 in or more*	
	Inches.	Inches.	Date.		
Jan.	8·14				
Feb.	6·78				
Mar.	·69				
April	4·24				
May	3·02				
June	6·58				
July	5·41				
Aug.	6·01				
Sept.	4·73				
Oct.	3·25				
Nov.	9·97				
Dec.	3·02				
Total	61·84				

Directions from gauge

If gauge has been moved during the year state—

Date of move........ Distance........ Direction........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Signature Emma H. Ashworth

*See Instruction 2 (*f*) below.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{c}17\\18\end{array}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

6H8289|2

2865

FORM 1090.

B

Month
Sum

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1931

At Egerton

In the County of Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground ft. 12 in.
Height of Ground above Sea Level 633 ft.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more*	·04 in. or more*
	Inches.	Inches.	Date.		
JAN.	8·14				
FEB.	6·78				
MAR.	·69				
APRIL	4·24				
MAY	3·02				
JUNE	6·58				
JULY	5·41				
AUG.	6·01				
SEPT.	4·73				
OCT.	3·25				
NOV.	9·97				
DEC.	3·02				
Total	61·84				

Signature Edmund H. Ashworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Edmund H. Ashworth
Egerton House, Egerton, Lancashire

Hour of observation by the clock—in Winter 9.0 am in Summer 9.0 am

Nearest Railway Station Bromley Cross Distance Direction from gauge

Nearest Parish Church at Distance Direction from gauge

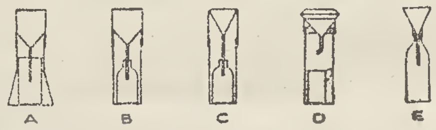
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D

INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

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new gauge

Form 1090.

Reference No 648289/25

2865

B Monthly Summary.

* The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 193.....

At Egerton House, Egerton

In the County of Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground . *ft.* 12 *in.*

Height of Ground above Sea Level 633 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	6·44				
FEB.	0·17				
MAR.	3·78				
APRIL	4·49				
MAY	5·31				
JUNE	·90				
JULY	4·21				
AUG.	1·51				
SEPT.	6·78				
OCT.	9·81				
NOV.	4·31				
DEC.	2·83				
Total	50·54				

Signature Edmund H. Ashworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Edmund H. Ashworth

Egerton House, Egerton, Nr. Bolton

Hour of observation by the clock—in Winter 9 am in Summer 9 am

Nearest Railway Station........ Distance........ Direction from gauge........

Nearest Parish Church at........ Distance........ Direction from gauge........

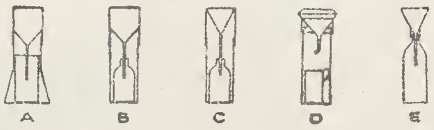
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move........ Distance........ Direction........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at* 9 *a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following* 9 *a.m. on January 1st; it is therefore the amount measured on January 2nd.* 9 *a.m. Greenwich Mean Time is* 10 *a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2865

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933

At Egerton House Egerton

In the County of Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground — *ft* 12 *in.*

Height of Ground above Sea Level 633 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·05				
FEB.	5·01				
MAR.	3·21				
APRIL	2·02				
MAY	2·06				
JUNE	3·06				
JULY	3·14				
AUG.	2·83				
SEPT.	1·04				
OCT.	5·21				
NOV.	2·81				
DEC.	·78				
Total	34·22				

Signature Edmund H. Ashworth

New gauge

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Edmund H. Ashworth
Egerton House, Egerton, Bolton

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

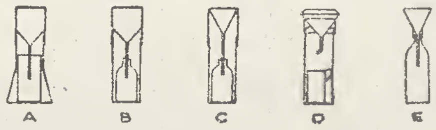
Nature of objects nearest to gauge	—			
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{l}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

M.O.

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(457) Wt.9673/738 16000 8/32. Gp. 119/110.

D

New gauge.

2865

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Egerton House, Egerton

In the County of Lancaster

Rain Gauge
- Diameter of Funnel .... in.
- *Height of Top above Ground* .... *ft* .... *in.*
- *Height of Ground above Sea Level* .... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·58				
FEB.	·50				
MAR.	3·55				
APRIL	3·33				
MAY	4·46				
JUNE	2·88				
JULY	2·34				
AUG.	5·97				
SEPT.	3·96				
OCT.	7·47				
NOV.	2·86				
DEC.	7·96				
Total	49·86				

Signature Edmund A. Ashworth.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

....

....

Hour of observation by the clock—in Winter........ in Summer........

Nearest Railway Station........ Distance........ Direction from gauge........

Nearest Parish Church at........ Distance........ Direction from gauge........

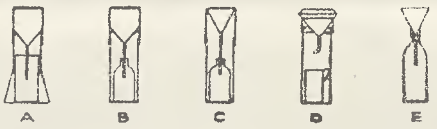
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move........ Distance........ Direction........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall, please** give the observer's name and address:—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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(586) Wt.283/202 16,000 5/34. Gp.119/110.

New Gauge

2865

FORM 1090.

B Monthly Summary.

. The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Egerton House Egerton

In the County of Lancaster Bolton

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* — *ft.* 12 *in.*
- *Height of Ground above Sea Level* 633 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·31				
FEB.	7·76				
MAR.	2·06				
APRIL	4·23				
MAY	1·45				
JUNE	4·75				
JULY	2·56				
AUG.	1·19				
SEPT.	8·50				
OCT.	10·42				
NOV.	5·70				
DEC.	4·73				
TOTAL	56·66				

Signature Edmund H. Ashworth

*See Instruction 2 (*f*) below.

C Particulars of Station,

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Edmund Heck Ashworth
Egerton House Egerton Lancashire

Hour of observation by the clock—in Winter 9 am in Summer 9 am

Nearest Railway Station Bromley Cross Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

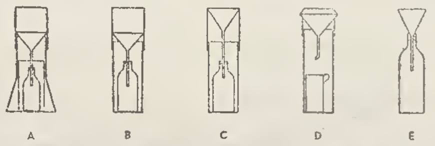
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.* 9 *a.m. Greenwich Mean Time is* 10 *a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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Wt.3430/1699 15,000 2/35 W. H. & S. 668/91.

2865

Form 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

New

RAINFALL IN 1936

At Egerton House Egerton Bolton

In the County of Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* ... ft. 12 in.
- *Height of Ground above Sea Level* 633 ft.

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				.01 in. or more	.04 in. or more
	Inches	Inches	Date	*	*
JAN.	5.60				
FEB.	3.17				
MAR.	3.39				
APRIL	1.23				
MAY	.81				
JUNE	4.49				
JULY	5.41				
AUG.	3.75				
SEPT.	6.51				
OCT.	5.96				
NOV.	7.46				
DEC.	6.33				
TOTAL	54.11 ✓				

Signature Edmund H. Ashworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:— Edmund H Ashworth
Egerton House, Egerton, Bolton

Hour of observation by the clock—in Winter 9.0 am in Summer 9.0 am

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

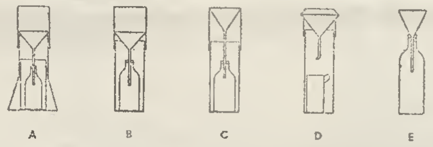
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

M.O. 7
14 JAN 1937

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005*: this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this* ·005 *mark or between this* ·005 *and the* ·01 *mark are to be entered as* ·01 *even though they may be nearer to the* ·005 *mark than the* ·01 *mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2865

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 193f

At Bolton (Egerton Ho.) new gauge.

In the County of Lancs.

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* – *in.*
Height of Ground above Sea Level 633 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·34				
FEB.	8·12				
MAR.	2·07				
APRIL	5·67				
MAY	1·72				
JUNE	2·14				
JULY	2·34				
AUG.	3·84				
SEPT.	2·25				
OCT.	2·45				
NOV.	2·09				
DEC.	3·54				
TOTAL	40·57				

Signature E. H. Ashworth, Esq.,

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Hour of observation by the clock—in Winter............in Summer............

Nearest Railway Station............ Distance............ Direction from gauge............

Nearest Parish Church at............ Distance............ Direction from gauge............

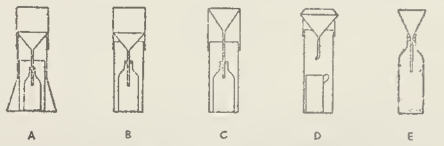
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move............ Distance............ Direction............

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005 : this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{l}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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FORM 1090.

New gauge

2865

B Monthly Summary.

* The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Egerton House, Egerton Bolton

In the County of Lancashire

Rain Gauge
- Diameter of Funnel ......5......in.
- *Height of Top above Ground........ft......12......in.*
- *Height of Ground above Sea Level......633......ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·46				
FEB.	2·26				
MAR.	1·95				
APRIL	·91				
MAY	4·82				
JUNE	5·53				
JULY	5·94				
AUG.	4·38				
SEPT.	3·35				
OCT.	11·56				
NOV.	6·61				
DEC.	6·81				
TOTAL	60·58				

Signature Edmund H. Ashworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Edmund H. Ashworth
Egerton House, Egerton, Bolton

Hour of observation by the clock—in Winter......9 pm......in Summer......9 pm

Nearest Railway Station Bromley Cross LMS Distance.............. Direction from gauge..........

Nearest Parish Church at Egerton. Distance.............. Direction from gauge..........

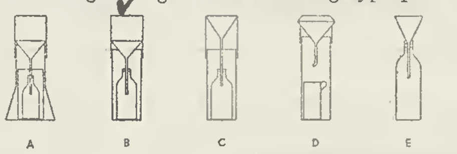
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move.............................. Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

M.O. 7
-1 JAN. 1939

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
  (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
  (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{c}17\\18\end{array}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

FORM 1090. 2865

B Monthly Summary.

C Particulars of Station. New Gauge.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939

At Egerton House, Egerton

In the County of Lancaster

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 ft. 12 in.
- *Height of Ground above Sea Level* 633 ft.

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
	Inches	Inches	Date	·01 in. or more *	·04 in. or more *
JAN.	4·51				
FEB.	5·95				
MAR.	2·52				
APRIL	3·20				
MAY	1·20				
JUNE	3·61				
JULY	9·37				
AUG.	2·35				
SEPT.	1·43				
OCT.	2·74				
NOV.	8·51				
DEC.	3·68				
TOTAL	49·07				

Signature Emma H. Ashworth

* See Instruction 3 *(f)* below.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Edmund Ashworth
Egerton House, Egerton, Bolton

Hour of observation by the clock—in Winter 9:0 am in Summer 9:0 am

Nearest Railway Station.................. Distance.................. Direction from gauge..................

Nearest Parish Church at.................. Distance.................. Direction from gauge..................

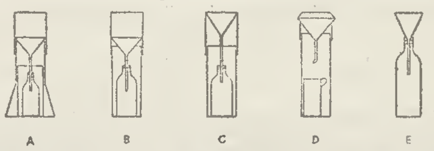
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move.................. Distance.................. Direction..................

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

M.O. 7
29 FEB. 1940

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as* ·01 *even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

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S.O. Code No. 40-9999

New Gauge

2865

FORM 1090.

B Monthly Summary.

⁂ The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN ~~193~~ 1940....

At Egerton

In the County of Lancaster

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground — *ft.* 12 *in.*
Height of Ground above Sea Level 633 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	2·99				
FEB.	2·81				
MAR.	3·54				
APRIL	3·68				
MAY	0·67				
JUNE	1·15				
JULY	5·56				
AUG.	2·53				
SEPT.	5·11				
OCT.	5·65				
NOV.	8·54				
DEC.	7·57				
TOTAL	49·80				

Signature Edmund H. Ashworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Edmund Hick Ashworth,
Egerton House, Egerton, Lancashire

Hour of observation by the clock—in Winter 9.0 am in Summer 9.0 am

Nearest Railway Station Bromley Cross Distance........ Direction from gauge........

Nearest Parish Church at........ Distance........ Direction from gauge........

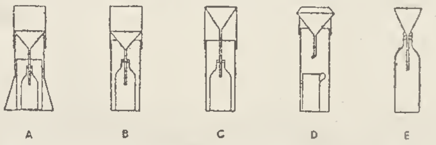
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move........ Distance........ Direction........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

M. O. 3a.
3 FEB 1941
B. R.

D INSTRUCTIONS.

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(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

2866

Section **A** for the entry
AIR MINIST
L ORGANIZATION.

FORM 1090. REGI

Kept at Bury (G
in the County of La

Diameter of Funnel of Gauge
Height of top of Gauge above Gro
,, Ground ,, Sea

THE MORNING MEA

An observer who does not conform *following*
year in the space on the right of

Jan. 1, following

2866

Bury, Gin Hall No 1

1931 — 40

780502

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	.09	·	·	.11	·	·	·	·	.04	.15	·	·	1
2	·	.08	·	.61	·	1.05	·	·	.89	.04	.06	.10	2
3	·	·	·	.06	·	.03	.35	·	.30	.04	1.91	.36	3
4	·	.01	·	.33	·	·	.31	.01	.86	.08	.07	.45	4
5	·	.16	·	·	.21	1.03	.19	1.40	.14	·	·	.33	5
6	·	.28	·	·	.03	·	.32	·	.37	.53	.31	.01	6
7	·	.01	·	·	·	.77	·	.26	·	.39	.40	.24	7
8	.09	.36	.02	.10	·	·	.16	.37	.11	.02	.21	.01	8
9	·	.75	.01	.24	·	.08	·	.32	.04	.03	.35	.11	9
10	.08	.30	·	·	.21	.45	·	.15	.15	·	.30	·	10
11	.49	.53	·	.06	·	.02	.15	·	.33	·	.16	.01	11
12	.02	.51	·	.03	·	·	.42	·	.07	.24	.08	·	12
13	·	·	.22	·	.07	.01	.13	.01	·	·	·	·	13
14	.74	.15	·	·	.01	1.25	.17	.90	.01	·	.55	.02	14
15	.39	.45	·	.17	.22	·	.12	.25	·	·	·	.01	15
16	.65	.06	·	.53	.33	.25	.06	.96	.28	·	·	·	16
17	.06	.08	·	.18	.02	.14	.56	.43	.04	·	.14	·	17
18	.43	·	·	.13	·	.55	.56	.12	·	·	.81	·	18
19	.22	.32	·	.02	·	·	.12	1.26	.03	.03	·	.03	19
20	.01	.15	.09	·	·	.11	·	.06	·	·	.10	·	20
21	.50	.12	.10	·	.18	.13	.04	.34	·	·	.02	·	21
22	.41	.05	·	.05	.22	.04	.03	·	·	·	.07	·	22
23	.30	·	·	.31	.37	.19	.29	·	·	·	.99	.38	23
24	.03	.28	·	.10	.47	·	.03	·	·	·	.09	.10	24
25	.22	.90	·	.23	.19	·	.04	·	·	·	.05	.13	25
26	.06	.09	·	.42	·	·	·	·	·	·	.64	.03	26
27	.10	.10	·	.06	.15	·	.42	·	·	.33	.62	.06	27
28	.57	.29	·	.08	.12	·	.17	·	.02	·	·	.18	28
29	.20	X	·	.01	.14	·	.16	·	·	.84	.01	·	29
30	·	X	·	.01	·	·	·	·	.11	·	.01	·	30
31	.65	X	·	X	·	X	.17		X	.04	X	.13	31
TOTAL	6.31	6.03	.44	3.84	2.94	6.10	4.94	6.84	3.79	2.76	7.05	2.69	YEAR'S TOTAL 54.63
*Days with ·01 in. or more.	22	23	5	22	16	16	23	15	17	13	23	19	214
*Days with ·04 in. or more.	19	21	3	18	13	13	20	13	14	10	20	12	176

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M

*See Instruction 2 (*f*) on other side.

(*Signed*) J. A. Codwell

P.T.O.

2866

Section **A** for the entry of Daily Observations.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Bury (Gin Hall No 1)

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 475 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	.09	.	.	.11	.	.	.	.	.04	.15	.	.	1
2	.	.08	.	.61	.	1.05	.	.	.89	.04	.06	.10	2
3	.	.	.	.06	.	.03	.35	.	.30	.04	1.91	.36	3
4	.	.01	.	.33	.	.	.31	.01	.86	.08	.07	.45	4
5	.	.16	.	.	.21	1.03	.19	1.40	.14	.	.	.33	5
6	.	.28	.	.	.03	.	.32	.	.37	.53	.31	.01	6
7	.	.01	.	.	.	.77	.	.26	.	.39	.40	.24	7
8	.09	.36	.02	.10	.	.	.16	.37	.11	.02	.21	.01	8
9	.	.75	.01	.24	.	.08	.	.32	.04	.03	.35	.11	9
10	.08	.30	.	.	.21	.45	.	.15	.15	.	.30	.	10
11	.49	.53	.	.06	.	.02	.15	.	.33	.	.16	.01	11
12	.02	.51	.	.03	.	.	.42	.	.07	.24	.08	.	12
13	.	.	.22	.	.07	.01	.13	.01	.	.	.	.	13
14	.74	.15	.	.	.01	1.25	.17	.90	.01	.	.55	.02	14
15	.39	.45	.	.17	.22	.	.12	.25	.	.	.	.01	15
16	.65	.06	.	.53	.33	.25	.06	.96	.28	.	.	.	16
17	.06	.08	.	.18	.02	.14	.56	.43	.04	.	.14	.	17
18	.43	.	.	.13	.	.55	.56	.12	.	.	.81	.	18
19	.22	.32	.	.02	.	.	.12	1.26	.03	.03	.	.03	19
20	.01	.15	.09	.	.	.11	.	.06	.	.	.10	.	20
21	.51	.12	.10	.	.18	.13	.01	.34	.	.	.02	.	21
22	.41	.05	.	.05	.22	.04	.03	.	.	.	.07	.	22
23	.30	.	.	.31	.37	.19	.29	.	.	.	.99	.38	23
24	.03	.28	.	.10	.47	.	.03	.	.	.	.09	.10	24
25	.22	.90	.	.23	.19	.	.04	.	.	.	.05	.13	25
26	.06	.09	.	.42	.	.	.	.	.	.	.64	.03	26
27	.70	.10	.	.06	.15	.	.42	.	.	.33	.62	.06	27
28	.57	.29	.	.08	.12	.	.17	.	.02	.	-	.18	28
29	.20	×	.	.01	.14	.	.16	.	.	.84	.01	.	29
30	.	×	.	.01	.	.	.	.	.11	.	.01	.	30
31	.65	×	.	×	.	×	.17	.	×	.04	×	.13	31
TOTAL	6.31	6.03	.44	3.84	2.94	6.10	4.94	6.84	3.79	2.76	7.95	2.69	YEAR'S TOTAL 54.63
*Days with ·01 in. or more.	22	23	5	22	16	16	23	15	17	13	23	19	214
*Days with ·04 in. or more.	19	21	3	18	13	13	20	13	14	10	20	12	176

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*See Instruction 2 (f) on other side.

(Signed) J. A. Rodwell

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2866

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Bury (Gin Hall No. 1)
in the County of Lancashire
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 475 ft.

The Bury & District Joint Water Board

Circ F sent 1/6/33.
906 sent 6/6/33. re December total. Observer agrees 15/6/33.

B. A

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·27	·	·	·45	·10	·	·20	·03	·78	·30	·15	·15	1
2	·15	·	·	·	·09	·	·02	·02	·36	·12	·16	·31	2
3	·08	·	·	·	·	·	·27	·01	·13	·	·	·08	3
4	·09	·	·	·	·	·	·35	·	·07	·05	·10	·02	4
5	·98	·	·10	·33	·01	·	·02	·	·23	·	·	·	5
6	1·01	·	·17	·50	·03	·	·	·	·21	·	·	·	6
7	·21	·	·74	·25	·	·	·	·	·55	·55	·	·	7
8	·	·	·	·19	·	·	·	·	·08	·83	·	·	8
9	·07	·05	·	·46	·06	·	·	·	·05	·	·	·04	9
10	·53	·01	·	·04	·	·	·	·	·80	·40	·	·02	10
11	·04	·03	·	·03	·82	·06	·19	·	·06	·03	·02	·	11
12	·36	·	·	·	·60	·01	·10	·06	·02	·50	·	·	12
13	·02	·06	·	·09	·12	·	·24	·04	·35	·37	·	·45	13
14	·15	·	·	·14	·	·	·08	·05	·01	·16	·04	·03	14
15	·	·	·	·01	·55	·	·	·	·	·16	·12	·07	15
16	·23	·	·	·02	·	·	·25	·	·	·20	·	·18	16
17	·	·	·	·	·02	·	·16	·05	·04	·61	·	·	17
18	·	·	·	·	·09	·	·01	·	·02	·03	·01	·	18
19	·	·	·	·19	·07	·	·01	·	·	·52	·	·	19
20	·	·	·	·18	·48	·	·06	·22	·	·15	·07	·02	20
21	·05	·	·36	·28	·21	·	·05	·27	·	·54	·10	·02	21
22	·01	·	·20	·18	·10	·	·05	·	·	·04	·15	·08	22
23	·	·02	·	·06	·60		·23	·	·	·09	·05	·07	23
24	·05	·	·	·03	·01		·29	·	·17	·02	·11	·01	24
25	·	·03	·	·15	·06	·01	·05	·	·09	·96	·20	·	25
26	·	·01	·	·07	·20	·	·50	·	·07	·42	·29	·	26
27	·	·	·35	·31	·32	·20	·30	·		·08	·22	·14	27
28	·	·	·04	·10	·13	·	·30	·	·	·	·	·02	28
29	·08	·	·68	·40	·04	·13	·32	·36	·12	·85	·32	·35	29
30	·	✕	·15	·02	·16	·37	·04	·01	·09	·13	·55	·16	30
31	·01	✕	·07	✕	·01	✕	·07	·	✕	·01	✕	·07	31
TOTAL	4·39	·21	2·86	4·48	4·88	·78	4·16	1·12	4·30	8·12	2·72	2·35	YEAR'S TOTAL 4~~2~~0·37
*Days with ·01 in. or more.	19	7	10	24	24	6	25	11	21	26	17	20	210
*Days with ·04 in. or more.	16	2	10	19	19	4	21	7	18	22	15	13	166

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M

*See Instruction 2 (f) on other side.

(Signed) J. C. Rodwell

P.T.O.

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Section **A** for the entry of Daily Observations. Station No. 2866

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Bury (Gin Hall) No 1.
in the County of Lancashire
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 475 ft.

The Bury & District Joint Water Board.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·03	·56	·05		·01			·03	·07		·50		1
2	·50		·22	·33		·13		·07	·01				2
3	·01	·62	·39		·42						·03		3
4	·30	·12	·22		·14					·01	·01		4
5	·20	·19	·07		·06						·05		5
6	·01	·19	·01		·24						·01	·02	6
7	·05	·40	·12		·05		·36	·05		·72		·03	7
8	·32	·15	·17	·07	·02	·08	·14	·03			·01	·05	8
9		·35		·18	·12		·90	·03		·55	·12		9
10	·17	·01				·02	·04			1·32	·17		10
11							·35	·01		·38		·08	11
12	·02					·12	·31			·17		·05	12
13			·01		·20		·11	·08		·16	·31		13
14	·21		·04		·01		·03	·06		·02	·40		14
15	·24		·08			·04	·02	·11		·22	·34		15
16	·10	·04	·20	·07	·03	·36	·04	·01		·32	·05	·02	16
17	·07		·83	·05		·68		·30	·05	·01	·04		17
18		·05	·25			·42		·08			·01		18
19		·01	·25			·06	·28	·05	·34		·14	·02	19
20		·13			·04	·46		·37	·07		·01	·01	20
21		·01				·02		·31	·06			·01	21
22								·07		·06			22
23				·35	·03	·02		·02	·01	·10			23
24		·08		·19	·09	·04			·52	·01	·02		24
25		·07		·08					·06			·10	25
26		·72		·34	·04					·55			26
27		·01		·01	·43		·01			·01			27
28				·12			·06			·16			28
29		×					·04					·08	29
30	·05	×	·04	·19	·04		·23			·25		·31	30
31	·43	×	·06	×		×	·22	·20	×	·50	×		31
TOTAL	2·71	3·71	3·01	1·98	1·97	2·45	3·14	1·88	1·19	5·52	2·22	·78	YEAR'S TOTAL 30/56
*Days with ·01 in. or more.	16	18	17	12	17	13	16	18	9	19	17	12	184
*Days with .04 in. or more.	12	14	15	11	12	10	13	12	7	12	10	6	134

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*See Instruction 2 (*f*) on other side.

D M.

(*Signed*) J. A. Rodwell

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2866

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Bury (Gin Hall) No 1

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 475 ft.

T. L.

The Bury & District Joint Water Board

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·	·	·	·	·	·	·	·03	·12	·04	·06	·51		1
2	·19	·02	·15	·	·01	·	·	·43	·04	·	·31	·55		2
3	·01	·01	·	·	·	·	·	·14	·	·22	·09	·08		3
4	·15	·	·07	·07	·05	·	·	·	·02	·93	·	·91		4
5	·16	·	·09	·	·12	·	·	·55	·03	·32	·03	·17		5
6	·	·	·10	·09	·46	·05	·	·11	·	·39	·	·30		6
7	·31	·06	·01	·06		·08	·	·	·	·08	·52	·47		7
8	·	·	·08	·	·12	·50	·	·04	·04	·17	·63	·02		8
9	·	·08	·08	·	·	·	·	·20	·01	·	·25	·01		9
10	·	·01	·45	·04	·	·	·	·22	·	·35	·01	·		10
11	·08	·	·02	·53	·	·	·	·31	·	·01	·02	·15		11
12	·	·01	·01	·20	·	·	·01	·03	·	·08	·	·05		12
13	·30	·	·	·03	·09	·	·04	·	·	·25	·01	·		13
14	·44	·	·18	·	·13	·	·	·	·	·62	·03	·08		14
15	·52	·	·21	·	·77	·	·01	·11	·13	·01	·01	·21		15
16	·50	·	·18	·	·15	·	·	·	·	·03	·	·02		16
17	·40	·	·30	·02	·15	·	·28	·	·36	·07	·	·25		17
18	·27	·	·30	·20	·63	·18	·	·03	·01	·		·24		18
19	·	·	·24	·	·07	·35	·	·01	·46	·18	·	·		19
20	·	·	·05	·17	·37	·02	·	·06	·09	·15	·01	·01		20
21	·	·	·03	·	·06	·54	·	·06	·05	·07	·	·		21
22	·10	·	·01	·	·	·	·	·17	·60	·13	·01	·		22
23	·09	·	·13	·46	·02	·	·51	·02	·	·23	·03	·10		23
24	·01	·23	·07	·16	·	·01	·02	·	·35	·20	·	·		24
25	·	·16	·	·11	·04	·	·15	·	·25	·30	·	·43		25
26	·09	·	·01	·17	·	·09	·25	·	·20	·04	·01	·05		26
27	·15	·	·	·08	·	·27	·30	·	·01	·33	·03	·35		27
28	·	·	·	·06	·	·21	·11	·27	·	·36	·	·72		28
29	·	×	·	·	·	·	·13	·69	·44	·21	·	·13		29
30	·06	×	·	·	·	·	·09	·06	·27	·25	·	·03		30
31	·02	×	·	×	·	×	·11	·02	×	·10	×	·20		31
TOTAL	3·85	·58	2·77	2·45	3·24	2·30	2·01	3·56	3·48	6·12	2·06	6·04	Year's Total 38·46	
*Days with ·01 in. or more.	19	8	22	16	16	11	13	21	19	28	17	25	215	
*Days with ·04 in. or more.	16	4	16	14	14	9	10	15	14	25	6	20	163	

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*See Instruction 2 (*f*) on other side.

M

† Spare column, no entries required.

(*Signed*) J. C. Rodwell.

[P.T.O.

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Section **A** for the entry of Daily Observations. Station No. 2866

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Bury (Gin Hall) N° 1.

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 475 ft.

TL

Irwell Valley Water Board.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·65	·41	·01	–	–	·01	·08	–	·18	1·02	·14	·45		1
2	·01	·19	·05	–	–	·27	·01	–	·04	·15	·06	·35		2
3	·07	·92	·08	·20	–	·08	·47	–	·27	·06	·09	·35		3
4	–	·02	·07	·03	–	·29	·05	–	·45	·19	–	·01		4
5	–	·58	·18	·32	–	·41	·04	–	·25	·02	·20	·25		5
6	–	–	–	·10	–	·30	–	–	–	–	–	–		6
7	·01	–	–	·24	–	·26	–	–	–	·33	·13	·33		7
8	–	–	–	·12	–	·01	–	–	–	·36	·08	·64		8
9	·01	–	–	·43	–	·05	–	–	–	1·77	·15	–		9
10	–	·06	–	·30	–	–	·02	–	–	·48	·19	–		10
11	·51	·10	–	–	–	·24	–	–	–	·33	·07	–		11
12	–	·24	–	–	–	·48	–	–	·08	–	–	–		12
13	·19	·07	–	·10	·28	–	–	–	·16	·09	–	–		13
14	–	–	–	·13	·06	·22	–	–	·08	–	1·24	·36		14
15	–	·99	–	·42	·07	–	–	–	·83	·36	·08	·26		15
16	–	·45	·10	·32	·09	·30	·10	–	·80	–	·16	–		16
17	–	·01	–	·36	·63	·19	·16	–	·44	·04	·43	–		17
18	–	·04	–	·08	·11	·08	·32	–	·55	·35	·19	–		18
19	–	·08	–	·18	·01	·39	·25	–	–	·15	·28	–		19
20	–	·50	–	·48	–	·24	·09	–	–	–	–	–		20
21	–	·13	·02	–	–	·03	–	–	1·32	·22	·04	·18		21
22	–	·16	·12	·27	–	–	–	–	·02	–	·01	–		22
23	·04	–	·79	·08	–	–	–	·30	·03	·43	–	–		23
24	·49	·53	·05	–	–	–	–	–	1·50	·07	–	·14		24
25	·23	·01	·17	–	–	·09	–	–	–	–	·08	·02		25
26	–	–	–	–	–	–	·03	1·15	·61	·41	·21	·26		26
27	–	·07	–	–	·07	·05	·38	–	·21	1·13	·66	·06		27
28	·04	·11	–	–	·03	–	–	·01	·10	·50	·07	–		28
29	·01		·05	–	–	–	–	·06	·33	·66	·09	·21		29
30	·10	✕	–	–	–	·21	–	·34	·24	·59	·85	·09		30
31	·04	✕	–	✕	–	✕	–	–	✕	·21	✕	·50		31
TOTAL	2·40.	5·67.	1·69.	4·16	1·35	4·20	2·00	1·86	8·49.	9·92	5·50	4·46	Year's Total. 51·70	
* Days with .01 in. or more.	14	21	12	18	9	21	13	5	21	24	23	17	198	
* Days with .04 in. or more.	10	18	10	17	7	18	10	4	19	23	22	15	173	

40-9999

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) J A Rodwell [P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2866

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 090.

REGISTER OF RAINFALL IN 1936.

Kept at Bury, Gin Hall No I
in the County of S. Lancs
Diameter of Funnel of Gauge..................in.
Height of top of Gauge above Ground........ft..........in.
,, Ground ,, Sea Level ....ft.

Copy by B.R.O.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·02	·10	·03	·20	—	·04	—	·48	·09	—	·26	·34		1
2	·02	·09	—	·03	—	·34	—	·13	·02	—	·06	·18		2
3	—	—	—	—	—	·44	·04	·18	·98	—	—	·11		3
4	·43	·20	·30	—	—	·02	·01	·07	·36	—	·25	·35		4
5	·08	·05	·62	—	—	·02	—	·32	·35	—	·08	·53		5
6	·07	—	·01	—	—	·01	·04	·49	·83	—	·20	—		6
7	—	—	·21	—	—	—	·13	·01	1·17	—	·22	·38		7
8	·40	—	·19	—	—	—	—	—	—	—	·57	·14		8
9	·28	—	·01	—	—	—	·36	—	·08	—	1·06	·04		9
10	·11	—	—	—	—	—	·32	—	—	—	1·30	—		10
11	—	—	—	—	—	·16	·42	·03	·05	—	·68	·02		11
12	—	—	—	·12	·04	·84	·69	·02	·45	·11	·12	·02		12
13	—	—	—	·06	·02	—	·10	—	—	·32	·02	·62		13
14	—	—	—	·06	—	·37	·02	·15	·18	·18	·25	·83		14
15	·24	—	—	·11	·06	·15	·08	·26	·06	—	·60	·06		15
16	·03	·16	·01	·02	—	—	·02	—	—	·04	·72	·01		16
17	·13	·39	·02	·03	·01	—	·08	·19	—	·84	·05	·18		17
18	—	·04	—	·03	—	·14	·28	·22	—	·93	—	—		18
19	·20	·33	·04	·02	—	·08	·23	·45	—	·22	—	—		19
20	·26	·12	·05	—	—	—	·03	—	—	·05	—	—		20
21	·14	—	—	·04	—	·01	—	—	—	·12	—	—		21
22	·27	·39	·07	—	—	1·40	·26	—	—	—	—	·06		22
23	—	·04	·22	·29	·02	—	·83	—	—	·07	—	—		23
24	·21	·01	—	·03	·21	—	·02	—	·11	·79	—	·03		24
25	·49	—	—	·02	—	—	·06	—	·39	·41	—	·03		25
26	·03	·35	·11	·06	—	—	·01	—	·09	·85	—	—		26
27	1·13	·04	—	—	—	—	—	—	·20	·50	—	—		27
28	·23	·41	·10	—	—	—	·13	—	—	—	—	·13		28
29	·08	·31	1·09	—	·08	·63	·02	—	—	·15	·20	·13		29
30	·30	✕	·02	—	·56	·20	·41	—	—	·58	·20	·07		30
31	·03	✕	·01	✕	·02	✕	·07	—	✕	—	✕	·77		31
TOTAL	5·18	3·03	3·11	1·12	1·02	4·85	4·66	3·00	5·41	6·16	6·84	5·03	Year's Total 49·41	
* Days with .01 in. or more.	23	16	18	15	9	16	25	14	16	16	18	22	208	
* Days with .04 in. or more.	18	15	11	8	5	12	18	11	15	16	17	17	163	

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) .... [P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2866

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

Kept at Bury, Gin Hall no. I

in the County of S. Lancashire

Diameter of Funnel of Gauge..................in.

Height of top of Gauge above Ground.........ft..........in.

,, Ground ,, Sea Level ....ft.

T. L.

Copy by B.R.O.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·05	·13	·09	–	–	–	·08	–	·37	–	·01	·25		1
2	·33	·31	·07	·23	–	·01	·02	–	·02	·01	–	–		2
3	–	·27	·07	·04	·10	·67	·14	–	–	–	–	·04		3
4	·30	·03	·06	·13	·17	·01	·03	–	–	–	–	·82		4
5	1·54	–	·01	·01	·01	·01	–	–	–	–	–	·01		5
6	·02	–	·04	·13	·14	–	–	·50	·07	–	–	·09		6
7	·03	·14	–	·36	·03	·12	–	–	·12	–	–	–		7
8	–	·69	·01	·03	–	·05	·14	–	–	–	·01	·01		8
9	·02	·18	–	·08	·20	–	·52	·25	–	–	–	–		9
10	·01	·15	–	·01	–	·02	·01	·03	–	–	–	·39		10
11	–	–	·20	–	·05	–	·03	–	–	–	–	·02		11
12	·15	·50	·10	–	–	·06	·08	·12	·26	–	–	·35		12
13	–	·21	–	–	–	·40	–	·50	·01	–	–	·25		13
14	–	·12	·21	–	–	–	–	·35	·13	·01	·01	·32		14
15	·26	·55	–	·46	–	–	·40	–	·39	–	–	·05		15
16	·09	·59	·17	·48	·09	–	–	·20	·09	–	–	·01		16
17	·09	·06	·31	·28		–	–	·02	·09	–	–	–		17
18	·28	·40	·09	·05	–	–	–	·39	·01	–	·52	–		18
19	·15	·37	·10	·27	–	·06	·06	·06	–	–	·50	–		19
20	·09	·21	–	·10	·38	·06	–	–	–	–	–	·28		20
21	–	·04	·02	·16	·08	–	·53	–	–	·13	–	·21		21
22	·09	–	·12	·03	·05	–	·18	–	–	·45	·29	·19		22
23	·18	–	–	–	·47	–	·23	–	–	·32	·16	·01		23
24	·12	·40	·15	–	·02	–	·03	–	·16	·33	–	·11		24
25	–	·65	–	–	–	–	–	·22	–	·05	–	·05		25
26	–	·33	·06	–	·45	–	–	–	·09	–	–	·04		26
27	–	·56	–	·17	–	–	–	–	–	·31	–	·01		27
28	–	·25	–	–	–	·11	–	–	–	·17	–	–		28
29	·01	–	–	–	–	·06	–	–	–	·06	·20	–		29
30	·08	✕	–	–	–	·30	–	·05	–	·12	·55	·01		30
31	·37	✕	–	✕	–	✕	–	·10	✕	·27	✕	–		31
TOTAL	4·26	7·14	1·88	3·02	2·24	1·94	2·48	2·79	1·81	2·23	2·25	3·52	Year's Total 35·56	
* Days with .01 in. or more.	21	23	18	18	14	14	15	13	13	12	9	22	192	
* Days with .04 in. or more.	16	22	15	14	11	10	10	11	10	10	6	15	150	

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) .... [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2866

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

J-L

Copy by B.R.O.

Kept at Bury, Gin Hall No 1
in the County of S. Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. in.
,, Ground ,, Sea Level 475 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1		·03				·87	·27	·19	–	—	·16	·33		1
2	·02	·04		·64	·05	·63	·02	—	—	2·00	·25	·38		2
3				·01		·02	·21	—	·18	1·72	·29	·08		3
4	·04			·07		·04	·08	·19	–	·49	·23	1·10		4
5	·07	·01		·05		·08	·18	·03	·32	·60	–	·04		5
6	·21					·04	·20	—	·18	·37	–	·05		6
7	·45						·65	·01	·14	·43	–	–		7
8	·49	·01					·32	—	–	1·24	–	·32		8
9	·20	·70	·16			·25	·16	—	–	·14	–	·32		9
10		·06	·02			·10	·61	—	–	·14	–	·07		10
11	·20	·11			·06	·05	·10	·22	·02	·15	·11	·08		11
12	·34				·20		—	·02	–	1·42	·36	·01		12
13		·05			·04		·08	—	·05	·25	·20	·35		13
14	·39	·01			·19		·10	—	·04	—	·17	–		14
15	·27		·01		·01		·28	·32	–	·05	–	·37		15
16	·51		·07		·13		·19	·22	–	·10	·20	·12		16
17					1·24		·15	·22	·08	·47	·05	·08		17
18	·10				·10	·19	—	·58	·06	·53	·40	–		18
19						·02	–	·27	·09	—	–	·03		19
20	·39		·03				—	·09	·24	—	·43	·01		20
21			·02				—	·08	·01	—	·04	·01		21
22				·04		·33	—	—	–	—	·49	·04		22
23				·01	·08	·45	—	—	·08	—	·60	–		23
24	·33	·14	·27		·03	·18	·08	·60	·02	—	·22	–		24
25	·16	·41	·11			·13	·20	·14	–	·58	·71	·11		25
26	·26	·48	·27		·15	·16	—	—	·01	·32	·24	·11		26
27	·64	·18	·01		·43	·54	·18	·17	—	–	·51	–		27
28	·28	·10	·17		·10	·90	·08	·16	·18	·02	·02	·14		28
29	·14		·15		1·15	·48	·34	—	–	·24	·10	·42		29
30	·38	✕			·11	·02	·03	—	·54	·02	·48	·11		30
31	·29	✕	·01	✕	·39	✕	—	—	✕	·60	✕	1·10		31
TOTAL	6·16	2·33	1·30	·82	4·46	5·48	4·61	3·51	2·24	11·88	6·26	5·78	Year's Total 54·83	
* Days with .01 in. or more.	22	14	13	6	17	20	22	17	14	22	22	25	217	
* Days with .04 in. or more.	21	10	7	4	·15	17	20	14	13	20	21	21	183	

† Spare column, no entries required.

(*Signed*) R. Wyllie

* See Instruction 3 (f) on other side.

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2866

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

Form 1090

REGISTER OF RAINFALL IN 1939

Kept at Bury, Gin Hall No. 1

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. in.

,, Ground ,, Sea Level 475 ft.

Copy by B.R.O.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·43	—	·23	·21	-	—	·02	·10	—	·03	—	·45		1
2	·06	—	—	·11	-	—	·57	·63	·68	—	·04	·11		2
3	·09	—	—	·08	-	—	—	·16	·10	—	·11	·81		3
4	·05	—	·40	·43	·01	—	·44	—	—	—	·08	·74		4
5	—	—	—	—	·32	-	·22	·10	—	·32	·36	·03		5
6	·90	·34	·01	—	-	—	·64	·02	—	—	·12	—		6
7	·26	·40	·17	—	·21	-	·09	·01	—	—	·09	·44		7
8	·27	·12	·32	·03	—	-	·53	·16	—	·09	·49	·48		8
9	·12	·57	—	—	-	—	·07	·58	—	·45	·15	·55		9
10	·10	·03	·03	—	-	·16	—	·01	·48	·25	·02	·15		10
11	·28	·05	·27	—	-	·28	—	—	—	—	·01	—		11
12	·33	·27	—	—	-	·06	—	—	—	—	—	—		12
13	·03	—	—	·22	·13	·21	·08	—	·05	·03	·01	—		13
14	·78	—	—	·23	·43	50	·62	—	·01	—	·35	—		14
15	·10	·08	·01	·59	·08	1·30	·26	—	—	—	·14	—		15
16	·12	—	·08	·03	35	-	·10	—	—	·02	·10	—		16
17	·80	·34	·03	·05	07	·03	—	—	—	·31	·11	—		17
18	·06	·24	·01	—	-	·19	·30	—	—	—	·82	—		18
19	·27	—	—	—	·02	-	·21	—	—	—	·01	—		19
20	·08	—	—	—	·01	-	·19	·21	—	—	—	—		20
21	·12	·14	·66	·13	03	-	·28	·40	·02	—	—	—		21
22	·15	·29	·18	·04	·03	-	·05	—	—	·02	·85	—		22
23	·01	·39	·02	·21	-	·11	·09	—	—	·50	·20	—		23
24	·01	·18	—	·03	-	·01	·10	—	—	·01	·02	-		24
25	·26	·24	—	—	-	-	—	—	—	—	1·80	-		25
26	·01	—	—	—	-	-	—	·35	—	·16	67	·04		26
27	·01	1·90	·14	—	-	·51	·08	·05	—	·02	·44	·08		27
28	—	·10	·13	—	-	·28	·85	—	—	—	·92	-		28
29	—		—	—	-	-	1·62	—	—	·17	·24	—		29
30	—	✕	—	—	-	·09	·14	—	—	—	·52	-		30
31	—	✕	—	✕	-	✕	·20	·12	✕	—	✕	-		31
Total	5·70	5·68	2·69	2·39	1.69	3·73	7·75	2·90	1·34	2·38	8·67	3·88	Year's Total 48.80	✓
* Days with .01 in. or more.	26	17	16	14	12	13	24	14	6	14	26	11	193	✓
* Days with .04 in. or more.	21	16	10	11	7	11	23	11	4	8	21	10	153	✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) ....

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2866

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19~~3~~40

Kept at Bury, Gyn Hall No 1
in the County of S. Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 475 ft.

November corr. for arithmetic.

BRITISH RAINFALL ORGANIZATION.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	–	·08	–	·33	–	–	–	–	–	–	·67	·26		1
2	–	–	–	·34	–	–	·10	–	–	–	·32	·32		2
3	–	·15	–	·19	–	–	·11	–	–	·03	·07	·21		3
4	–	·10	–	·10	–	–	·11	–	–	·23	·20	·60		4
5	–	–	–	–	·15	–	·07	–	–	·73	·04	·51		5
6	–	·29	–	–	–	–	·02	–	–	·43	·03	·13		6
7	·09	·22	–	·29	·09	–	·06	·24	·10	·05	·02	–		7
8	·01	–	·02	·05	–	–	·01	·04	–	·36	·09	·36		8
9	–	–	·17	–	–	–	·72	·15	·32	·73	1·34	·30		9
10	–	–	·07	–	–	–	·54	·34	–	·23	·76	·73		10
11	–	–	·14	·06	–	·03	·08	–	·01	–	1·86	–		11
12	–	·02	·32	–	–	·01	·12	·09	·50	–	·55	–		12
13	–	–	·10	·02	–	–	–	·09	·67	–	·09	·02		13
14	–	·09	·05	·40	·11	–	·07	·05	·32	–	·08	·60		14
15	–	–	·03	·04	·12	·05	–	–	·06	–	·09	·05		15
16	·02	–	·14	·13	–	–	·30	–	1·47	·42	·04	·13		16
17	–	–	·57	·01	·32	–	·55	–	·18	–	·51	·02		17
18	·05	·15	·20	·49	–	–	·01	·28	·30	–	·01	·29		18
19	–	·22	·31	·04	–	–	·18	–	·43	·01	·31	·01		19
20	–	·01	·10	·32	–	–	·07	·37	·20	·18	·17	–		20
21	–	–	·27	·02	–	·40	·12	·06	–	·03	·62	–		21
22	–	·03	·07	–	·18	·06	–	·09	·30	–	–	–		22
23	–	·20	·02	·21	·02	–	·23	–	·12	–	·15	–		23
24	·64	·02	·02	–	–	–	·03	–	·05	–	–	·02		24
25	·05	–	–	–	·01	·05	·02	–	–	·06	–	–		25
26	·54	·22	·07	–	·04	·12	·03	–	–	–	·05	–		26
1·58 27	·85	·70	–	·02	–	–	·53	–	–	–	·15	–		27
28	·05	·25	–	–	·08	–	–	·17	–	–	–	·05		28
29	–	–	·42	·01	–	·36	·03	–	–	·03	–	·85		29
30	–	✕	–	·03	–	–	–	–	–	·49	·03	·28		30
31	09	✕	·15	✕	·04	✕	–	·05	✕	·92	✕	–		31
TOTAL	2·39	2·75	3·24	3·10	1·16	1·08	4·11	2·02	5·03	4·93	8·25 ~~8·46~~	5·74	Year's Total 45·80 ~~44·01~~	✓
* Days with .01 in. or more.	10	16	20	20	11	8	24	13	15	16	25	20	198	✓
* Days with .04 in. or more.	8	12	16	14	9	6	17	13	14	12	21	16	158	✓

† Spare column, no entries required.

(*Signed*) R. Wyllie [P.T.O.

* See Instruction 3 (f) on other side.

Section A for the entry c
AIR MINISTR

2867

ORGANIZATION.

FORM 1090.

REGIS

Kept at Bury (Gin
in the County of La

Diameter of Funnel of Gauge
Height of top of Gauge above Grou
,, Ground ,, Sea

THE MORNING MEAS

An observer who does not conform to
year in the space on the right of th

llowing

Jan. 1, following

—

2867
Bury, Gin Hall No2
1931 — 40

780502

Date	Jan.	Feb.	March								Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·08	·	·	·12	·	·	·	·	·04	·15	·	·	1
2	·	·08	·	·62	·	1·08	·	·	·89	·04	·09	·11	2
3	·	·	·	·06	·	·03	·36	·	·34	·04	1·96	·36	3
4	·	·01	·	·33	·	·	·32	·01	·89	·08	·07	·45	4
5	·	·17	·	·	·22	1·12	·22	1·55	·14	·	·	·33	5
6	·	·29	·	·	·03	·	·31	·	·36	·53	·32	·01	6
7	·	·01	·	·	·	·77	·	·26	·	·39	·40	·24	7
8	·09	·37	·02	·10	·	·	·16	·39	·11	·02	·23	·01	8
9	·	·77	·01	·24	·	·08	·	·31	·04	·03	·35	·11	9
10	·08	·28	·	·	·22	·45	·	·15	·16	·	·29	·	10
11	·49	·54	·	·06	·	·02	·16	·	·34	·	·20	·01	11
12	·03	·45	·	·03	·	·	·41	·	·07	·24	·08	·	12
13	·	·	·22	·	·07	·01	·13	·01	·	·	·	·	13
14	·14	·16	·	·	·01	1·23	·17	·95	·01	·	·58	·02	14
15	·35	·45	·	·18	·22	·	·12	·23	·	·	·	·01	15
16	·72	·06	·	·50	·32	·25	·06	·91	·28	·	·	·	16
17	·06	·08	·	·17	·02	·14	·56	·42	·04	·	·15	·	17
18	·43	·	·	·14	·	·58	·55	·13	·	·	·82	·	18
19	·22	·34	·	·02	·	·	·12	1·25	·03	·03	·	·03	19
20	·01	·16	·09	·	·	·13	·	·06	·	·	·10	·	20
21	·52	·13	·11	·	·18	·13	·01	·34	·	·	·02	·	21
22	·44	·05	·	·05	·24	·04	·03	·	·	·	·07	·	22
23	·31	·	·	·32	·39	·20	·30	·	·	·	1·60	·38	23
24	·03	·28	·	·11	·50	·	·03	·	·	·	·09	·10	24
25	·21	·90	·	·25	·17	·	·04	·	·	·	·05	·13	25
26	·05	·09	·	·42	·	·	·	·	·	·	·60	·03	26
27	·66	·10	·	·05	·16	·	·42	·	·	·34	·64	·06	27
28	·56	·31	·	·08	·13	·	·18	·	·02	·	·	·18	28
29	·19	×	·	·01	·16	·	·16	·	·	·88	·01	·	29
30	·	×	·	·01	·	·	·	·	·11	·	·01	·	30
31	·70	×	·	×	·	×	·17	·	×	·04	×	·15	31
TOTAL	6·37	6·07	·45	3·87	3·04	6·26	4·99	6·97	3·87	2·81	8·73	2·72	YEAR'S TOTAL 56·15
*Days with ·01 in. or more.	22	23	5	22	16	16	23	15	17	13	23	19	214
*Days with ·04 in. or more.	19	21	3	18	13	13	20	13	14	10	20	12	176

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(Signed) J. A. Rodwell [P.T.O.

*See Instruction 2 (*f*) on other side.

2867

Section **A** for the entry of Daily Observations.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Bury (Gin Hall No 2)

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 475 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·08	·	·	·12	·	·	·	·	·04	·15	·	·	1
2	·	·08	·	·62	·	1·08	·	·	·89	·04	·09	·11	2
3	·	·	·	·06	·	·03	·36	·	·34	·04	1·96	·36	3
4	·	·01	·	·33	·	·	·32	·01	·89	·08	·07	·45	4
5	·	·17	·	·	·22	1·12	·22	1·55	·14	·	·	·33	5
6	·	·29	·	·	·03	·	·31	·	·36	·53	·32	·01	6
7	·	·01	·	·	·	·77	·	·26	·	·39	·40	·24	7
8	·09	·37	·02	·10	·	·	·16	·39	·11	·02	·23	·01	8
9	·	·77	·01	·24	·	·08	·	·31	·04	·03	·35	·11	9
10	·08	·28	·	·	·22	·45	·	·15	·16	·	·29	·	10
11	·49	·54	·	·06	·	·02	·16	·	·34	·	·20	·01	11
12	·03	·45	·	·03	·	·	·41	·	·07	·24	·08	·	12
13	·	·	·22	·	·07	·01	·13	·01	·	·	·	·	13
14	·14	·16	·	·	·01	1·23	·17	·95	·01	·	·58	·02	14
15	·35	·45	·	·18	·22	·	·12	·23	·	·	·	·01	15
16	·72	·06	·	·50	·32	·25	·06	·91	·28	·	·	·	16
17	·06	·08	·	·17	·02	·14	·56	·42	·04	·	·16	·	17
18	·43	·	·	·14	·	·58	·55	·13	·	·	·82	·	18
19	·22	·34	·	·02	·	·	·12	1·25	·03	·03	·	·03	19
20	·01	·16	·09	·	·	·13	·	·06	·	·	·10	·	20
21	·52	·13	·11	·	·18	·13	·01	·34	·	·	·02	·	21
22	·44	·05	·	·05	·24	·04	·03	·	·	·	·07	·	22
23	·31	·	·	·32	·39	·20	·30	·	·	·	1·60	·38	23
24	·03	·28	·	·11	·50	·	·03	·	·	·	·09	·10	24
25	·21	·90	·	·25	·17	·	·04	·	·	·	·05	·13	25
26	·05	·09	·	·42	·	·	·	·	·	·	·60	·03	26
27	·66	·10	·	·05	·16	·	·42	·	·	·34	·64	·06	27
28	·56	·31	·	·08	·13	·	·18	·	·02	·	·	·18	28
29	·19	×	·	·01	·16	·	·16	·	·	·88	·01	·	29
30	·	×	·	·01	·	·	·	·	·11	·	·01	·	30
31	·70	×	·	×	·	×	·17	·	×	·04	×	·15	31
TOTAL	6·37	6·07	·45	3·87	3·04	6·26	4·99	6·97	3·87	2·81	8·73	2·72	YEAR'S TOTAL 56·15
*Days with ·01 in. or more.	22	23	5	22	16	16	23	15	17	13	23	19	214
*Days with ·04 in. or more.	19	21	3	18	13	13	20	13	14	10	20	12	176

40-9999

(*Signed*) J. A. Rodwell [P.T.O.

*See Instruction 2 (*f*) on other side.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2867

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 193 .

Kept at Bury (Gin Hall No. 2)
in the County of Lancashire.
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 475 ft.

The Bury & District Joint Water Board.

Circ 21 sent 1/6/33.

observer sends amended values.

B. A.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·29	·	·	·45	·11	·	·22	·03	·81	·32	·17	·15	1
2	·17	·	·	·	·10	·	·02	·02	·33	·13	·17	·39	2
3	·08	·	·	~~·02~~	·	·	·28	·01	·12	·	·	·08	3
4	·09	·	·	·	·	·	·35	·	·06	·05	·10	·02	4
5	1·00	·	·11	·33 ~~·11~~	·01	·	·02	·	·24	·	·	·	5
6	1·02	·	·17	·50 ~~·70~~	·03	·	·	·	·21	·	·	·	6
7	·21	·	·72	·25 ~~·23~~	·	·	·	·	·57	·57	·	·	7
8	·	·	·	·19 ~~·16~~	·	·	·	·	·10	·82	·	·	8
9	·08	·05	·	·48 ~~·55~~	·06	·	·	·	·05	·	·	·04	9
10	·54	·01	·	·04 ~~·03~~	·	·	·	·	·80	·40	·	·02	10
11	·04	·03	·	·03	·84	·05	·23	·	·05	·03	·03	·	11
12	·42	·	·	·	·64	·01	·11	·06	·02	·50	·	·	12
13	·02	·06	·	·10 ~~·27~~	·13	·	·27	·03	·35	·37	·	·46	13
14	·15	·	·	·15 ~~·06~~	·	·	·08	·05	·01	·16	·05	·03	14
15	·	·	·	·01 ~~·02~~	57	·	·	·	·	·17	·12	·08	15
16	25	·	·	·02	·	·	·25	·	·	·20	·	·18	16
17	·	·	·	·	·02	·	·16	·05	·04	·61	·	·	17
18	·	·	·	·	·08	·	·01	·	·02	·03	·01	·	18
19	·	·	·	·20	·07	·	·01	·	·	·55	·	·	19
20	·	·	·	·19	·50	·	·06	·23	·	·16	·08	·03	20
21	·05	·	·39	·28	·22	·	·05	·28	·	·58	·11	·02	21
22	·01	·	20	·18	·10	·	·05	·	·	·05	·20	·08	22
23	·	·02	·	·06	·62	·	·22	·	·	·10	·05	·07	23
24	·05	·	·	·03	·01	·	·29	·	·18	·02	·17	·01	24
25	·	·03	·	·15	·06	·01	·05	·	·09	·97	·21	·	25
26	·	·01	·	·07	·20	·	·51	·	·08	·42	·31	·	26
27	·	·	·36	·33	·32	·20	·34	·	·	·08	·21	·15	27
28	·	·	·04	·10	13	·	·31	·	·	·	·	·02	28
29	·09	·	·70	·40	·04	·12	·34	·39	14	·87	·33	·37	29
30	·	✕	·14	·02	·16	·40	·05	·01	·09	·12	·55	·15	30
31	·01	✕	·07	✕	·01	✕	·07	·	✕	·01	✕	·08	31
TOTAL	4·57	·21	2·90	4·56	5·03	·79	4·35	1·16	4·36	8·29	2·87	2·43	41·52 YEAR'S TOTAL ~~4[illegible]·52~~
*Days with ·01 in. or more.	19	7	10	25	24	6	25	11	21	26	17	20	211
*Days with .04 in. or more.	16	2	10	19	19	4	21	6	18	22	15	13	165

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*See Instruction 2 (*f*) on other side.

(*Signed*) J. A. Rodwell

P.T.O.

~~COPY FOR OFFICIAL USE.~~

Section **A** for the entry of Daily Observations. Station No. 2867

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Bury (Gin Hall) No 2.

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 475 ft.

The Bury & District Joint Water Board

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·03	·59	·05		·01			·03	·07		·45		1
2	·52		·24	·36		·14		·07	·01				2
3	·01	·66	·41		·47						·03		3
4	·31	·13	·23		·16					·01	·01		4
5	·20	·21	·07		·07						·05		5
6	·01	·20	·01		·29						·01	·02	6
7	·05	·40	·12		·05		·41	·05		·80		·03	7
8	·34	·16	·18	·07	·02	·08	·17	·03			·01	·05	8
9		·35		·20	·12		·87	·03		·64	·12		9
10	·18	·01				·02	·05			1·28	·17		10
11							·36	·01		·36		·11	11
12	·02					·12	·31			·16		·06	12
13			·01		·20		·14	·08		·16	·30		13
14	·22		·04		·01		·03	·06		·02	·50		14
15	·25		·08			·04	·03	·11		·22	·36		15
16	·10	·04	·20	·07	·03	·38	·04	·01		·38	·05	·02	16
17	·07		·80	·05		·70		·29	·07	·01	·03		17
18		·05	·25			·43		·08			·01		18
19		·01	·25			·06	·30	·05	·30		·14	·02	19
20		·15			·04	·48		·30	·08		·01	·01	20
21		·01				·02		·29	·06			·01	21
22								·08		·06			22
23				·36	·03	·02		·02	·01	·09			23
24		·11		·20	·09	·04			·50	·01	·02		24
25		·09		·08					·06			·10	25
26		·82		·36	·04					·51			26
27		·01		·01	·43		·01			·01			27
28				·12			·07			·15			28
29		×					·04					·08	29
30	·06	×	·04	·22	·04		·29			·26		·30	30
31	·45	×	·07	×		×	·25	·20	×	·42	×		31
TOTAL	2·82	4·00	3·05	2·10	2·10	2·53	3·37	1·79	1·16	5·55	2·27	·82	YEAR'S TOTAL 31·56
*Days with ·01 in. or more.	16	18	17	12	17	13	16	18	9	19	17	12	184
*Days with ·04 in. or more.	12	14	15	11	12	10	13	12	7	14	9	6	135.

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) J. A. Rodwell

~~P.T.O.~~

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2867

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Bury (Gin Hall) No 2.

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 475 ft.

The Bury & District Joint Water Board

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·	·	·	·	·	·	·	·03	·13	·04	·04	·55		1
2	·20	·02	·15	·	·01	·	·	·42	·05	·	·32	·60		2
3	·01	·01	·	·	·	·	·	·13		·26	·10	·08		3
4	·18	·	·08	·06	·06	·	·	·	·02	·94	·	·94		4
5	·16	·	·04	·	·15	·	·	·54	·03	·26	·03	·18		5
6		·	·11	·09	·60	·05	·	·11	·	·34	·	·31		6
7	·30	·04	·01	·04	·	·08	·		·	·08	·52	·50		7
8	·	·	·10	·	·16	·49	·	·04	·03	·14	·62	·02		8
9	·	·08	·10	·	·	·	·	·22	·01	·	·23	·01		9
10	·	·01	·48	·04	·	·	·	·25	·	·45	·01	·		10
11	·09	·	·02	·56	·	·	·	·31	·	·01	·02	·18		11
12	·	·01	·01	·25	·	·	·01	·03	·	·09	·	·05		12
13	·34	·	·	·04	·06	·	·04	·	·	·26	·01			13
14	·36	·	·22	·	·11	·	·	·	·	·61	·03	·10		14
15	·44	·	·21	·	·84	·	·01	·11	·13	·01	·01	·25		15
16	·54	·	·20	·	·15	·	·	·	·	·04		·02		16
17	·42	·	·28	·02	·14	·	·26	·	·34	·04	·	·30		17
18	·28	·	·26	·19	·41	·19	·	·03	·01	·	·	·28		18
19	·	·	·25	·	·04	·34	·	·01	·44	·22	·	·		19
20	·	·	·03	·19	·41	·02	·	·06	·08	·15	·01	·01		20
21	·	·	·04	·	·06	·54	·	·04	·05	·08	·	·		21
22	·11	·	·01	·	·	·	·	·19	·66	·15	·01	·		22
23	·09	·	·13	·53	·02	·	·49	·02	·	·24	·04	·11		23
24	·01	·24	·06	·14	·	·01	·02	·	·35	·23	·	·		24
25	·	·15	·	·11	·04	·	·14		·28	·36	·	·45		25
26	·11	·	·01	·15	·	·11	·22	·	·23	·04	·01	·05		26
27	·15	·	·	·04	·	·26	·31	·	·01	·36	·03	·38		27
28	·	·	·	·05	·	·14	·11	·24	·	·36	·	·74		28
29	·	×	·	·		·	·12	·69	·42	·22	·	·13		29
30	·06	×	·	·	·	·	·09	·06	·32	·25		·03		30
31	·02	×	·	×	·	×	·13	·02	×	·10	×	·21		31
TOTAL	3·93	·59	2·83	2·59	3·65	2·32	1·95	3·64	3·62	6·45	2·04	6·51	Year's Total 40·15	
*Days with ·01 in. or more.	19	8	22	16	16	11	13	21	19	28	14	25	215	
*Days with ·04 in. or more.	16	4	16	15	14	9	10	15	13	26	4	20	165	

† Spare column, no entries required.

(*Signed*) J. A. Rodwell

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*See Instruction 2 (*f*) on other side.

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Section **A** **for the entry of Daily Observations.** **Station No.** 2867

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Bury (Gin Hall) No. 2.
in the County of Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 475 ft.

Irwell Valley Water Board.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·58	·30	·01	–	–	·01	·08	–	·17	·95	·13	·43		1
2	·01	·15	·05	–	–	·33	·01	–	·04	·14	·06	·30		2
3	·08	·75	·08	·17	–	·08	·40	–	·27	·06	·09	·31		3
4	–	·01	·06	·03	–	·41	·04	–	·42	·20	–	·01		4
5	–	·55	·15	·28	–	·31	·03	–	·22	·02	·18	·23		5
6	–	–	–	·10	–	·28	–	–	–	–	–	–		6
7	·01	–	–	·24	–	·21	–	–	–	·31	·11	·33		7
8	–	–	–	·13	–	·01	–	–	–	·34	·08	·62		8
9	·01	–	–	·42	–	·06	–	–	–	1·74	·17	–		9
10	–	·03	–	·26	–	–	·02	–	–	·43	·19	–		10
11	·62	·08	–	–	–	·24	–	–	–	·33	·07	–		11
12	–	·20	–	–	–	·47	–	–	·07	–	–	–		12
13	·18	·07	–	·10	·27	–	–	–	·16	·11	–	–		13
14	–	–	–	·13	·06	·17	–	–	·08	–	1·20	·35		14
15	–	·68	–	·42	·06	–	–	–	·71	·32	·07	·24		15
16	–	·34	·11	·30	·09	·26	·10	–	·82	–	·16	–		16
17	–	·01	–	·31	·66	·22	·16	–	·35	·04	·44	–		17
18	–	·04	–	·08	·11	·07	·34	–	·54	·26	·21	–		18
19	–	·06	–	·19	·01	·37	·24	–	–	·10	·28	–		19
20	–	·48	–	·49	–	·23	·08	–	–	–	–	–		20
21	–	·13	·02	–	–	·03	–	–	1·35	·19	·05	·17		21
22	–	·18	·16	·24	–	–	–	–	·01	–	·02	–		22
23	·04	–	·89	·08	–	–	–	·30	·03	·45	–	–		23
24	·56	·56	·05	–	–	–	–	–	1·49	·07	–	·13		24
25	·21	·01	·14	–	–	·09	–	–	–	–	·08	·02		25
26	–	–	–	–	–	–	·03	1·10	·62	·30	·19	·25		26
27	–	·06	–	–	·07	·04	·30	–	·22	·98	·58	·05		27
28	·04	·11	–	–	·03	–	–	·01	·10	·34	·05	–		28
29	·01		·04	–	–	–	–	·06	·33	·58	·08	·22		29
30	·10	×	–	–	–	·21	–	·38	·25	·52	·80	·09		30
31	·05	×	–	×	–	×	–	–	×	·21	×	·50		31
TOTAL	2·49	4·80	1·76	3·97	1·36	4·10	1·83	1·85	8·25	8·99	5·29	4·25	Year's Total. 48·94	
* Days with .01 in. or more.	14	21	12	18	9	21	13	5	21	24	23	17.	198	
* Days with .04 in. or more.	10	17	10	17	7	18	9	4	19	23	22	15.	171	

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* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) J. A. Rodwell

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2867

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Bury (Gin Hall) No 2

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 475 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·02	·10	·04	·21	·	·04	·	·49	09	·	·25	·31		1
2	·02	·09	·	·03	·	·35	·	·12	02	·	·06	·16		2
3	·	·	·	·	·	·47	·04	·18	1·10	·	·	·09		3
4	·40	·19	·30	·	·	·02	·01	·09	38	·	·23	·33		4
5	·10	·05	·59	·	·	·02	·	34	34	·	·07	·43		5
6	·07	·	·01	·	·	·01	·04	·46	88	·	·21	·		6
7	·	·	·20	·	·	·	·10	·01	1·00	·	·21	·41		7
8	·41	·	·20	·	·	·	·	·	·	·	·58	·10		8
9	·28	·	·01	·	·	·	·40	·	·08	·	·94	·04		9
10	·10	·	·	·	·	·	·34	·	·	·	1·12	·		10
11	·	·	·	·	·	·15	·40	·03	·05	·	·70	·02		11
12	·	·	·	·14	·04	·81	·61	·02	·46	·10	·14	·02		12
13	·	·	·	·06	·02	·	·10	·	·	·31	·02	·57		13
14	·	·	·	·06	·	·36	·02	·15	·16	·15	·23	·77		14
15	·23	·	·	·11	·07	·14	·07	·24	·05	·	·52	·06		15
16	·02	·17	·01	·02	·	·	·02	·	·	·03	·73	·01		16
17	·10	·39	·02	·03	·01	·	·08	·19	·	·71	·04	·18		17
18	·	·04	·	·03	·	·14	·25	·23	·	·90	·	·		18
19	·39	·32	·03	·02	·	·08	·20	·44	·	·20	·	·		19
20	·22	·13	·05	·	·	·	·03	·	·	·04	·	·		20
21	·13	·	·	·04	·	·01	·	·	·	·10	·	·		21
22	·23	·37	·07	·	·	1·47	·29	·	·	·	·	·06		22
23	·	·04	·22	·30	·02	·	·90	·	·	·07	·	·		23
24	·23	·02	·	·03	·22	·	·02	·	·10	·77	·	·03		24
25	·52	·	·	·02	·	·	·07	·	·40	·36	·	·03		25
26	·03	·32	·11	·06	·	·	·01	·	·07	·84	·	·		26
27	1·11	·04	·	·	·	·	·	·	·19	·45	·	·		27
28	·19	·40	·10	·	·	·	·12	·	·	·	·	·12		28
29	·08	·33	1·10	·	·10	·65	·02	·	·	·15	·15	·11		29
30	·30	✕	·02	·	·59	·12	·39	·	·	·54	·21	·07		30
31	·03	✕	·01	✕	·01	✕	·06	·	✕	·	✕	·68		31
													Year's Total	
TOTAL	5·21	3·00	3·09	1·16	1·08	4·84	4·59	2·99	5·37	5·72	6·41	4·60	48·06	✓
* Days with .01 in. or more.	23	16	18	15	9	16	25	14	16	16	18	22	208	✓
* Days with .04 in. or more.	18	15	11	8	5	12	18	11	15	16	17	17	163	✓

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* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) J. A. Rodwell

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2867

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937

Kept at Bury (Gin Hall No 2).

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 475 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·05	·15	·07	·	·	·	·07	·	·36	·	·01	·26		1
2	·28	·31	·08	·24	·	·01	·03	·	·02	·01	·	·		2
3	·	·25	·06	·04	·10	·62	·15	·	·	·	·	·04		3
4	·25	·03	·06	·13	·17	·01	·03	·	·	·	·	·87		4
5	1·42	·	·01	·01	·01	·01	·	·	·	·	·	·01		5
6	·02	·	·04	·13	·13	·	·	·56	·07	·	·	·09		6
7	·03	·15	·	·36	·04	·10	·	·	·10	·	·	·		7
8	·	·68	·01	·03	·	·05	·15	·	·	·	·01	·01		8
9	·02	·17	·	·09	·22	·	·50	·25	·	·	·	·		9
10	·01	·12	·	·01	·	·02	·01	·03	·	·	·	·40		10
11	·	·	·25	·	·06	·	·04	·	·	·	·	·02		11
12	·15	·52	·10	·	·	·06	·07	·09	·26	·	·	·32		12
13	·	·22	·	·	·	·39	·	·56	·01	·	·	·26		13
14	·	·12	·18	·	·	·	·	·37	·13	·01	·01	·31		14
15	·26	·54	·	·45	·	·	·40	·	·39	·	·	·05		15
16	·10	·51	·17	·49	·09	·	·	·20	·10	·	·	·01		16
17	·08	·06	·31	·29	·	·	·	·02	·10	·	·	·		17
18	·30	·38	·09	·05	·	·	·	·36	·01	·	·54	·		18
19	·15	·33	·10	·26	·	·05	·06	·06	·	·	·52	·		19
20	·09	·21	·	·09	·39	·06	·	·	·	·	·	·29		20
21	·	·04	·02	·15	·09	·	·51	·	·	·14	·	·22		21
22	·09	·	·12	·02	·05	·	·16	·	·	·45	·30	·17		22
23	·17	·	·	·	·47	·	·23	·	·	·33	·16	·01		23
24	·14	·40	·13	·	·04	·	·04	·	·14	·32	·	·09		24
25	·	·60	·	·	·	·	·	·21	·	·05	·	·07		25
26	·	·33	·05	·	·46	·	·	·	·09	·	·	·04		26
27	·	·51	·	·17	·	·	·	·	·	·36	·	·01		27
28	·	·22	·	·	·	·10	·	·	·	·17	·	·		28
29	·01		·	·	·	·05	·	·	·	·07	·20	·		29
30	·09	✕	·	·	·	·28	·	·04	·	·12	·55	·01		30
31	·39	✕	·	✕	·	✕	·	·10	✕	·28	✕	·		31
													Year's Total	
TOTAL	4·10	6·85	1·85	3·01	2·32	1·81	2·45	2·85	1·78	2·31	2·30	3·56	35·19	✓
* Days with .01 in. or more.	21	23	18	18	14	14	15	13	13	12	9	22	192	✓
* Days with .04 in. or more.	16	22	15	14	13	10	12	11	10	10	6	15	154	✓

† Spare column, no entries required

* See Instruction 3 (f) on other side.

(*Signed*) J. A. Rodwell [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2867

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

Kept at Bury (Gin Hall) No 2

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Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 475 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

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Jan. 1, following

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Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·	·02	·	·	·	·93	·25	·17	·	·	·13	·31		1
2	·02	·03	·	·58	·05	·59	·02	·	·	1·74	·27	·40		2
3	·	·	·	·01	·	·01	·17	·	·17	1·54	·25	·07		3
4	·04	·	·	·08	·	·04	·07	·19	·	·44	·19	1·05		4
5	·06	·01	·	·03	·	·09	·17	·02	·32	·64	·	·04		5
6	·21	·	·	·	·	·04	·32	·	·18	·35	·	·05		6
7	·43	·	·	·	·	·	·68	·01	·15	·44	·	·		7
8	·48	·01	·	·	·	·	·29	·	·	1·20	·	·33		8
9	·21	·66	·13	·	·	·23	·14	·	·	·12	·	·34		9
10	·	·06	·01	·	·	·10	·52	·	·	·13	·	·07		10
11	·21	·09	·	·	·06	·05	·08	·21	·02	·15	·11	·08		11
12	·34	·	·	·	·20	·	·	·02	·	1·49	·37	·01		12
13	·	·05	·	·	·04	·	·08	·	·03	·22	·18	·35		13
14	·37	·02	·	·	·18	·	·10	·	·04	·	·20	·		14
15	·25	·	·01	·	·01	·	·29	·34	·	·05	·	·38		15
16	·47	·	·07	·	·13	·	·20	·19	·	·10	·22	·12		16
17	·	·	·	·	1·11	·	·14	·21	·07	·46	·05	·08		17
18	·10	·	·	·	·11	·19	·	·52	·05	·50	·38	·		18
19	·	·	·	·	·	·01	·	·23	·10	·	·	·02		19
20	·32	·	·03	·	·	·	·	·10	·21	·	·42	·01		20
21	·	·	·02	·	·	·	·	·09	·01	·	·04	·01		21
22	·	·	·	·04	·	·34	·	·	·	·	·47	·05		22
23	·	·	·	·01	·07	·43	·	·	·07	·	·54	·		23
24	·30	·13	·25	·	·03	·17	·07	·64	·02	·	·22	·		24
25	·15	·43	·10	·	·	·12	·20	·14	·	·57	·70	·10		25
26	·21	·45	·25	·	·14	·15	·	·	·01	·30	·22	·09		26
27	·58	·15	·01	·	·42	·52	·16	·19	·	·	·49	·		27
28	·25	·08	·14	·	·08	·88	·09	·17	·18	·02	·02	·14		28
29	·12	X	·12	·	1·16	·40	·35	·	·	·24	·09	·38		29
30	·37		·	·	·10	·02	·03	·	·53	·02	·40	·10		30
31	·26		·01		·40		·	·		·58		1·08		31
TOTAL	5·75	2·19	1·15	0·75	4·29	5·31	4·42	3·44	2·16	11·30	5·96	5·66	Year's Total 52·38	
* Days with .01 in. or more.	22	14	13	6	17	20	22	17	17	22	22	25	217	
* Days with .04 in. or more.	21	9	7	3	15	17	20	14	12	20	21	21	180	

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) R. Wyllie

P.T.O.

Section **A** for the entry of Daily Observations

Station No. 2867

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

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in the County of Lancashire
Diameter of Funnel of Gauge 5 in.
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	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·42	·	·23	·21	·	·	·02	·09	·	·04	·	·40		1
2	·07	·	·	·11	·	·	·48	·60	·70	·	·04	·09		2
3	·09	·	·	·09	·	·	·	·18	·05	·	·11	·74		3
4	·06	·	·38	·50	·01	·	·39	·	·	·	·07	·73		4
5	·	·	·	·	·34	·	·24	·10	·	·34	·38	·03		5
6	·94	·33	·01	·	·	·	·64	·02	·	·	·11	·		6
7	·26	·42	·13	·	·23	·	·09	·01	·	·	·09	·45		7
8	·26	·12	·30	·03	·	·	·50	·14	·	·09	·45	·48		8
9	·10	·54	·	·	·	·	·05	·54	·	·47	·15	·54		9
10	·06	·01	·04	·	·	·14	·	·01	·44	·25	·02	·13		10
11	·30	·04	·25	·	·	·28	·	·	·	·	·01	·		11
12	·33	·26	·	·	·	·07	·	·	·	·	·	·		12
13	·03	·	·	·23	·13	·22	·08	·	·05	·03	·01	·		13
14	·83	·	·	·25	·45	·48	·56	·	·01	·	·32	·		14
15	·10	·07	·01	·63	·08	1·32	·27	·	·	·	·12	·		15
16	·12	·	·07	·03	·35	·	·10	·	·	·02	·10	·		16
17	·82	·32	·03	·04	·07	·03	·	·	·	·32	·11	·		17
18	·07	·20	·01	·	·	·19	·29	·	·	·	·81	·		18
19	·28	·	·	·	·02	·	·22	·	·	·	·01	·		19
20	·08	·	·	·	·01	·	·20	·20	·	·	·	·		20
21	·12	·15	·60	·12	·04	·	·27	·41	·02	·	·	·		21
22	·14	·29	·17	·03	·03	·	·05	·	·	·02	·83	·		22
23	·01	·37	·02	·19	·	·11	·09	·	·	·48	·20	·		23
24	·01	·16	·	·03	·	·01	·09	·	·	·01	·02	·		24
25	·27	·24	·	·	·	·	·	·	·	·	1·65	·		25
26	·02	·	·	·	·	·	·	·35	·	·16	·58	·04		26
27	·01	1·84	·15	·	·	·53	·08	·05	·	·02	·40	·09		27
28	·	·11	·13	·	·	·26	·80	·	·	·	·94	·		28
29	·	×	·	·	·	·	1·57	·	·	·15	·21	·		29
30	·	×	·	·	·	·09	·14	·	·	·	·47	·		30
31	·	×	·	×	·	×	·20	·10	×	·	×	·		31
TOTAL	5·80	5·47	2·53	2·49	1·76	3·73	7·42	2·80	1·27	2·40	8·21	3·72	Year's Total 47·60	
* Days with .01 in. or more.	26	17	16	14	12	13	24	14	6	14	26	11	193	
* Days with .04 in. or more.	21	16	11	10	8	11	23	11	4	9	21	10	155	

† Spare column, no entries required.

*See Instruction 3 (f) on other side.

(*Signed*) Irwell Valley Water Board.

[P.T.O.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations

Station No. 2867

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19340

Kept at Bury (Gin Hall No. 2)

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 445 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·	·04	·	·30	·	·	·	·	·	·	·65	·25		1
2	·	·	·	·36	·	·	·09	·	·	·	·52	·31		2
3	·	·10	·	·14	·	·	·10	·	·	·04	·04	·21		3
4	·	·11	·	·08	·	·	·12	·	·	·22	·21	·50		4
5	·	·	·	·	·15	·	·04	·	·	·45	·04	·55		5
6	·	·23	·	·	·	·	·02	·	·	·46	·03	·12		6
7	·10	·26	·	·26	·09	·	·06	·21	·08	·05	·02	·		7
8	·01	·	·02	·06	·	·	·01	·04	·	·34	·10	·36		8
9	·	·	·16	·	·	·	·69	·15	·30	·66	1·35	·24		9
10	·	·	·06	·	·	·	·55	·31	·	·24	·68	·69		10
11	·	·	·14	·04	·	·03	·08	·	·01	·	1·44	·		11
12	·	·02	·34	·	·	·01	·13	·09	·45	·	·48	·		12
13	·	·	·13	·01	·	·	·	·09	·60	·	·09	·02		13
14	·	·09	·03	·35	·12	·	·05	·05	·24	·	·09	·60		14
15	·	·	·05	·04	·12	·05	·	·	·05	·	·08	·06		15
16	·02	·	·15	·11	·	·	·32	·	1·44	·45	·04	·10		16
17	·	·	·54	·01	·34	·	·50	·	·16	·	·54	·02		17
18	·05	·14	·18	·50	·	·	·01	·24	·29	·	·01	·26		18
19	·	·23	·24	·03	·	·	·20	·	·41	·01	·33	·01		19
20	·	·01	·08	·31	·	·	·08	·32	·18	·18	·16	·		20
21	·	·	·26	·02	·	·40	·14	·05	·	·03	·63	·		21
22	·	·02	·04	·	·19	·06	·	·04	·28	·	·	·		22
23	·	·16	·02	·22	·02	·	·22	·	·10	·	·15	·		23
24	·68	·02	·02	·	·	·	·03	·	·04	·	·	·02		24
25	·05	·	·	·	·01	·05	·02	·	·	·06	·	·		25
26	·49	·19	·08	·	·04	·11	·03	·	·	·	·04	·		26
27	·36	·44	·	·02	·	·	·55	·	·	·	·14	·		27
28	·05	·26	·	·	·08	·	·	·15	·	·	·	·06		28
29	·	·	·40	·01	·	·35	·03	·	·	·04	·	·45		29
30	·	X	·	·04	·	·	·	·	·	·50	·03	·24		30
31	·09	X	·14	X	·04	X	·	·04	X	·90	X	·		31
TOTAL	1·90	2·65	3·14	2·94	1·20	1·06	4·10	1·81	4·66	4·96	8·25	5·40	Year's Total 42·10	
* Days with .01 in. or more.	10	16	20	20	11	8	24	13	15	16	25	20	198	
* Days with .04 in. or more.	8	12	16	14	9	6	14	13	14	14	21	16	160	

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) R. Wylie

T.O.

Section **A** for the entry
AIR MINIST

FOR OFFICIAL USE.
L ORGANIZATION.

FORM 1090.

REGIS

Kept at (Smithills M BOLTON
in the County of Lanc
Diameter of Funnel of Gauge
Height of top of Gauge above Gro
,, Ground ,, Sea

THE MORNING MEAS

An observer who does not conform ... following year in the space on the right of

Please read

S. Lancs/3

5/30.

Year 15" high

no action necessary

Jan. 1, following.

2868/5
BOLTON, SMITHILLS (OLD GAUGE)
1931
7P0502

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1													1
2													2
3													3
4													4
5		Frozen	Frozen								2·00		5
6								·85					6
7					·25								7
8	Frozen									2·30			8
9				1·50			1·50						9
10									4·55			2·53	10
11						5·35							11
12		4·55	Frozen								2·67		12
13													13
14					·62								14
15	2· ·5									·77			15
16				1·35			·80						16
17									1·57			·63	17
18						2·60							18
19		Frozen	·70								2·17		19
20								8·05					20
21					·53								21
22	5·30									·09			22
23				·95			3·20						23
24									·11			·45	24
25						1·80							25
26													26
27													27
28		3·45											28
29													29
30		×		1·85		·15			·21		6·25		30
31	2·60	×	·25	×	2·10	×	1·20	·21	×	1·80	×	Frozen	31
TOTAL	9·95	8·00	·95	5·65	3·50	9·90	6·70	9·11	6·44	4·96	13·09	3·61	YEAR'S TOTAL 81·86
Days with ·01 in. or more.													to Eng.
Days with ·04 in. or more.													ok

40-9999

P. Pro.
(Signed) Nigel V. Ainsworth
Lowther Estate Bailiff

[P.T.O.

Section **A** **for the entry** **FOR ~~OFFICIAL~~ USE.** [illegible]

AIR MINIST L ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931. S. Lancs/3

Kept at BOLTON (Smithills Moor)

in the County of Lancaster

Diameter of Funnel of Gauge 8" in.

Height of top of Gauge above Ground one ft — in.

,, Ground ,, Sea Level 1375 ft.

Big hp 1929/30. [illegible] 15" [illegible]

please now abandoned now ← no action necessary

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following.

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1													1
2													2
3													3
4													4
5		Frozen	Frozen								2·00		5
6								·85					6
7					·25								7
8	Frozen									2·30			8
9				1·50			1·50						9
10									4·55			2·53	10
11						5·35							11
12		4·55	Frozen								2·67		12
13													13
14					·62								14
15	2· ·5									·77			15
16				1·35			·80						16
17									1·57			·63	17
18						2·60							18
19		Frozen	·70								2·17		19
20								8·05					20
21					·53								21
22	5·30									·09			22
23				·95			3·20						23
24									·11			·45	24
25						1·80							25
26													26
27													27
28		3·45											28
29													29
30		✕		1·85		·15			·21		6·25		30
31	2·60	✕	·25	✕	2·10	✕	1·20	·21	✕	1·80	✕	Frozen	31
TOTAL	9·95	8·00	·95	5·65	3·50	9·90	6·70	9·11	6·44	4·96	13·09	3·61	YEAR'S TOTAL 81·86
Days with ·01 in. or more.													[illegible]
Days with ·04 in. or more.													[illegible]

40-9999

P. Pro.
(Signed) Nigel V. Ainsworth
pp Lowther Estate Bailiff

[P.T.O.

2868/6.

Section **A** for the entry of D

AIR MINISTRY.-

FORM 1099.

REGIST

Y FOR OFFICIAL USE.

RGANIZATION.

S. Lancs/3.

2868/6

BOLTON, SMITHILLS (NEW GAUGE)

1931 —— 36

280502

Kept at Smithills Ma

in the County of Lancas

Diameter of Funnel of Gauge 5"

Height of top of Gauge above Ground

,, Ground ,, Sea Leve

THE MORNING MEASURI

An observer who does not conform to thi
year in the space on the right of this

Pl

ing

Jan. 1, following

Date	Jan.	Feb.	March	A							Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1													1
2													2
3													3
4													4
5											1·18		5
6								·85					6
7													7
8										1·65			8
9													9
10									3·12			1·46	10
11													11
12											1·90		12
13													13
14													14
15										·57			15
16													16
17									1·25			·32	17
18													18
19											1·50		19
20								2·75					20
21													21
22										·07			22
23													23
24									·10			·28	24
25													25
26													26
27													27
28													28
29													29
30		×							·17		3·95		30
31		×		×		×		·20	×	1·35	×	Frozen	31
TOTAL								3·80	4·64	3·64	8·53	2·06	YEAR'S TOTAL 22·67
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

N

(Signed) P.Pro. Nigel V. Ainsworth

P. Lowther Estate Bailiff

[P.T.O.

2868/6.

Section **A** **for the entry of D** **FOR OFFICIAL USE.**

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1099.

REGISTER OF RAINFALL IN 193 .

S. Lancs/3.

Kept at Smithills Moor
in the County of Lancashire
Diameter of Funnel of Gauge 5" in.
Height of top of Gauge above Ground 1' ft. 0 in.
,, Ground ,, Sea Level 1375 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1													1
2													2
3													3
4													4
5											1·18		5
6								·85					6
7													7
8										1·65			8
9													9
10									3·12			1·46	10
11													11
12											1·90		12
13													13
14													14
15										·57			15
16													16
17									1·25			·32	17
18													18
19											1·50		19
20								2·75					20
21													21
22										·07			22
23													23
24									·10			·28	24
25													25
26													26
27													27
28													28
29													29
30		×							·17		3·95		30
31		×		×		×		·20	×	1·35	×	Frozen	31
TOTAL								3·80	4·64	3·64	8·53	2·06	YEAR'S TOTAL 22·67
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

N.

P. Pro.
(Signed) Nigel V. Ainsworth
P. Lowther Estate Bailiff

[P.T.O.

BOLTON (SMITHILLS MOOR)

675964/26

COPY FOR OFFICIAL USE.

Section A for the entry of Daily Observations.

Station No. 2868/6

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

S. [illegible]

Kept at Smithills Moor.
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft — in.
,, Ground ,, Sea Level 1375 ft.

C [illegible] 1931
Letter sent 13/2/33 re large total.
not inserted in [illegible].

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1													1
2													2
3													3
4		·03											4
5					·30								5
6										·55			6
7	3·55			1·20			1·05		1·80				7
8												Frozen	8
9						—							9
10			·70								·50		10
11		Frozen						·37					11
12					·90								12
13										2·20			13
14	1·00			·60			·62						14
15									2·20			1·10	15
16						·02							16
17			0·03								·25		17
18		·09											18
19					1·60								19
20										1·80			20
21	·38			·18			·85						21
22									·15			·30	22
23						—							23
24			·72								1·10		24
25								1·20					25
26													26
27													27
28													28
29		Frozen											29
30		×		1·40		·40			·70		1·95		30
31	·46	×	1·80	×	2·05	×	1·00	·23	×	3·80	×	·70	31
TOTAL	5·39	·12	3·25	3·38	4·85	·42	3·52	1·80	4·85	8·35	3·80	2·10	YEAR'S TOTAL 41·83
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													small

40-9999

*See Instruction 2 (*f*) on other side.

338 4·85

(Signed) P.Pro. ~~Nigel V. Ainsworth~~ [illegible] P.T.O.

NIGEL V AINSWORTH ESQ

f675964/26

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2868/6

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

Lancs/3

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Smithills Moor New g

in the County of Lancashire

Diameter of Funnel of Gauge 5" in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 1375 ft.

c imp 1931
Comp 1932

File

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1										.57	1.10	.04		1
2														2
3														3
4														4
5	.80													5
6				.40			.05							6
7									.55			Frozen		7
8						.14								8
9		2.60	1.70								1.05			9
10								.80						10
11					1.15									11
12	Frozen									2.50				12
13							1.95							13
14				.30					.15			Frozen		14
15						.28								15
16		.50	.09								1.70			16
17								.50						17
18					.30									18
19	Frozen									.70				19
20							.64							20
21				.26					.33			Frozen		21
22						3.56								22
23		Frozen	1.26								.25			23
24								1.75						24
25					.80									25
26										.60				26
27														27
28		.90												28
29														29
30		✗		1.30		.25								30
31	1.10	✗	.09	✗	.50	✗	.55	.17	✗		✗	Frozen		31
TOTAL	1.90	4.00	3.14	2.26	2.75	4.23	3.19	3.22	1.03	4.37	4.10	.04	Year's Total 34.23	Comp.
*Days with ·01 in. or more.														
*Days with .04 in. or more.														

40-9999

*See Instruction 2 (*f*) on other side.

D

† Spare column, no entries required.

(*Signed*) Nigel V. Ainsworth

NIGEL V. AINSWORTH ESQ

[P.T.O.

X BOLTON (SMITHILLS MOOR) new site X

f 675964/26

2868/6

VIII/S. Lancs/3
c 1934

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Smithills Moor nr Shooting Hut,

In the County of Lancaster

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 1375 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4·60		1st		
FEB.	1·65				
MAR.	4·00				
APRIL	3·50				
MAY	4·60				
JUNE	3·10				
JULY	3·10				
AUG.	7·00				
SEPT.	4·70				
OCT.	8·60				
NOV.	3·50				
DEC.	8·70				
Total	57·05 ✓				

Sign~~ature~~ed N. V. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Nigel V. Ainsworth Esq
Smithills Estate Office, Bolton, Lancs

Hour of observation by the clock—in Winter 9 Oclock in Summer 9 Oclock

Nearest Railway Station Bolton Distance ...... Direction from gauge ......

Nearest Parish Church at Halliwell St Peter's Distance ...... Direction from gauge ......

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move ...... Distance ...... Direction ......

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from back of 2868/6

9 on selected site nr Shooting Hut.
Recommended Confirmed
Inspected 26/9/33.

see I in work for [illegible]

Circ H sent 5/2/35.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(506) Wt.24107/1845 15000 3/33. Gp. 119/110.

N

2868|7 6

FORM 1090. **B** Monthly Summary.

⁎ **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1935

At Smithills Moor Nr. Shooting Box.

In the County of Lancaster

Rain Gauge { Diameter of Funnel 5" in.

Height of Top above Ground 1 *ft* 0 *in.*

Height of Ground above Sea Level .... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4.20		31		
FEB.	7·30		28		
MAR.	2·16		31		
APRIL	3·90		30		
MAY	1·78		31		
JUNE	5·55		30		
JULY	2·63		31		
AUG.	2·70		31		
SEPT.	8·55		30		
OCT.	11·20		31		
NOV.	5·90		30		
DEC.	4·60		31		
Total	60·47				

Signature N. V. Ainsworth.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

N. V. Ainsworth Esq.
Smithills Estate Office, Bolton, Lancs.

Hour of observation by the clock—in Winter 9 o'clock in Summer 9 o'clock

Nearest Railway Station Bolton Distance 3½ Direction from gauge East

Nearest Parish Church at St. Peter's, Halliwell Distance 3 mls Direction from gauge E.

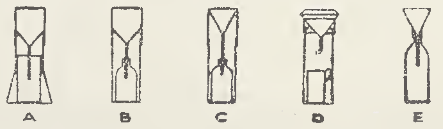
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.* *9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 / 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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(586) Wt.283/202 16,000 5/34. Gp.119/110.

2868/176

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936 Old gauge

At Smithills Moor

In the County of Lancaster

Rain Gauge
- Diameter of Funnel.......in.
- *Height of Top above Ground* 1 *ft.* 2 *in.*
- *Height of Ground above Sea Level* 1375 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·70				
FEB.	3·20				
MAR.	4·77				
APRIL	1·55				
MAY	1·10				
JUNE	5·45				
JULY	7·20				
AUG.	4·35				
SEPT.	6·10				
OCT.	6·80				
NOV.	7·70				
DEC.	5·98				
TOTAL	60·90				

59·70

Signature P. Lowther

X– N V Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Hour of observation by the clock—in Winter.......in Summer.......

Nearest Railway Station....... Distance....... Direction from gauge.......

Nearest Parish Church at....... Distance....... Direction from gauge.......

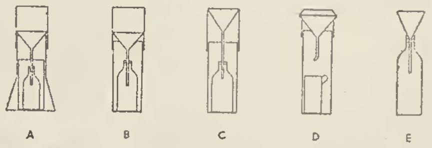
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move....... Distance....... Direction.......

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January* ~~*1st is the rainfall for the*~~ *24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

4/26 2868/7 VH/5 ~~[illegible]~~/3

c inp 1931

Low inp 1932 & 33

Section A **for the entry of** … tation No. 2868/7

AIR MINISTRY … ORGANIZATION.

FORM 1090. **REGIS** … 4.

Kept at Smithills M…

in the County of Lan…

Diameter of Funnel of Gauge

Height of top of Gauge above Grou…

,, Ground ,, Sea

THE MORNING MEASUR…

An observer who does not conform t… …following year in the space on the right of t…

Jan. 1, following 2.90

2868/7

BOLTON, SMITHILLS MOOR

1934 — 36

780502

Date	Jan.	Feb.	Mar.									Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1		·60	·25	·50	·53	··5	1·95	1·40	1·95	2·90	1·45	·86		1
2														2
3														3
4														4
5														5
6									·44			2·75		6
7						··7								7
8		·13	·90								1·55			8
9								2·98						9
10					1·26									10
11	1·40									3·45				11
12				·96			—							12
13									··3			1·30		13
14						·26								14
15		·17	Frozen								·88			15
16								1·76						16
17					1·64									17
18	2·12									1·80		1·18		18
19				·60			·70							19
20									·60					20
21						·75								21
22		··1	2·45								·15			22
23								·41						23
24					1·62									24
25	·46									1·59				25
26				1·40			1·10							26
27														27
28														28
29														29
30		X												30
31	+·60	X +·25	+·50	X +·53	+·05	X +1·95	+1·40	+1·95	X +2·90	+1·45	X +·86	+2·90		31
TOTAL	4·58 ~~3·98~~	·56 ~~·91~~	3·85 ~~3·60~~	3·49 ~~3·46~~	4·57 ~~5·05~~	3·03 ~~1·13~~	3·20 ~~3·75~~	7·10 ~~6·55~~	3·97 ~~3·02~~	8·29 ~~9·74~~	3·44 ~~4·03~~	8·13 ~~6·09~~	Year's Total. 54·21 ~~51·31~~	✓ Print ✓
* Days with .01 in. or more.														
* Days with .04 in. or more.														

40-9999

* See Instruction 2 (f) on other side. (See over) X

† Spare column, no entries required.

(Signed) N. V. Ainsworth [P.T.O.

4/26

Section **A** **for the entry of Daily Observations.** **Station No.** 2868/3

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

c imp 1931
Lew imp 1932 & 33

N.D.

Kept at Smithills Moor
in the County of Lancaster
Diameter of Funnel of Gauge 5" in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level ~~1375~~ ft. 1250

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following
2.90

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1		.60	.25	.50	.53	..5	1.95	1.40	1.95	2.90	1.45	.86		1
2														2
3														3
4														4
5														5
6									.44			2.75		6
7						..7								7
8		.13	.90								1.55			8
9								2.98						9
10					1.26									10
11	1.40									3.45				11
12				.96			—							12
13									..3			1.30		13
14						.26								14
15		.17	Frozen								.88			15
16								1.76						16
17					1.64									17
18	2.12									1.80		1.18		18
19				.60			.70							19
20									.60					20
21						.75								21
22		..1	2.45								.15			22
23								.41						23
24					1.62									24
25	.46									1.59				25
26				1.40			1.10							26
27														27
28														28
29														29
30		X												30
31	+.60	X +.25	+.50	X +.53	+.05	X +1.95	+1.40	+1.95	X +2.90	+1.45	X +.86	+2.90		31
TOTAL	4.58 ~~3.98~~	.56 ~~.91~~	3.85 ~~3.60~~	3.49 ~~3.46~~	4.57 ~~5.05~~	3.03 ~~1.13~~	3.20 ~~3.75~~	7.10 ~~6.55~~	3.97 ~~3.02~~	8.29 ~~9.94~~	3.44 ~~4.03~~	8.13 ~~6.09~~	Year's Total. 54.21 ~~51.31~~	✓ Print
* Days with .01 in. or more.														
* Days with .04 in. or more.														

40-9999

* See Instruction 2 (f) on other side (See over)

† Spare column, no entries required.

(Signed) H. V. Ainsworth [P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2868/6 7

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Smithills Moor

in the County of Lancaster

Diameter of Funnel of Gauge 5" in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level ~~1375~~ ft. 1250

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1														1
2														2
3														3
4														4
5														5
6						1·27								6
7		2·60	·50								·60			7
8								—						8
9					—									9
10	1·50									3·53				10
11				1·45			·65							11
12							—		·90			1·80		12
13						1·50								13
14		·60	—								1·10			14
15								··4						15
16					·50									16
17	1·28									1·12				17
18				1·10			·50							18
19									3·15			Frozen		19
20						·80								20
21		3·20	·12								2·10			21
22								·37						22
23					·67									23
24	·10									1·30				24
25				1·28			·90							25
26									2·40			Frozen		26
27														27
28		1·05												28
29														29
30		✕		··2		1·65			2·00		1·58			30
31	1·37	✕	1·50	✕	··7	✕	·15	1·95	✕	5·40	✕	2·80		31
TOTAL	4·25	7·45	2·12	3·85	1·24	5·22	2·20	2·36	8·45	11·35	5·38	4·60	Year's Total 58·47	
* Days with .01 in. or more.														
* Days with .04 in. or more.														

40-9999.

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) Nigel V. Ainsworth [P.T.O.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations — Station No. 2868 7

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1936

Kept at Smithills Moor

in the County of Lancaster

Diameter of Funnel of Gauge 5" in.

Height of top of Gauge above Ground 1 ft. 2 in.

,, Ground ,, Sea Level 1250 ft.

Dec. corrected ~~by surrounding stations~~ for arith., the value for Dec 31 being ascertained from total of 5·98 given.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1														1
2														2
3														3
4														4
5														5
6		Frozen						1·50						6
7					··4									7
8										·02				8
9	1·10			·25			·70							9
10									4·15			Frozen		10
11						1·15								11
12			2·18								4·75			12
13		Frozen						·85						13
14					·13									14
15										·95				15
16	Frozen			·40			2·40							16
17									·82			4·20		17
18						1·41								18
19			X								1·77			19
20		1·38						1·70						20
21					·15									21
22										1·93				22
23	Frozen			·37			1·80							23
24									·64			·30		24
25						1·05								25
26			·35								·64			26
27														27
28														28
29		1·30												29
30		✕		·47		1·40			1·07		·92			30
31	4·05	✕	1·48	✕	·63	✕	1·95	·25	✕	3·20	✕	1·48 ~~5·98~~	W	31
TOTAL	5·15	2·68	4·01	1·49	·95	5·01	6·85	4·30	6·08	6·10	7·48	5·98 ~~10·48~~	Year's Total ~~60·58~~	✓ 56·08
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required

* See Instruction 3 (f) on other side.

(*Signed*) P. Lowther [P.T.O.

X— N V Ainsworth

2869

Section **A** for the entry of … PY FOR OFFICIAL USE.
AIR MINISTRY … ORGANIZATION.

FORM 1090. **REGIST**

2869
BELMONT SPRINGS
1931 —— 40

780502

Kept at Belmont
in the County of Lanca

Diameter of Funnel of Gauge
Height of top of Gauge above Ground
,, Ground ,, Sea Le

THE MORNING MEASU

An observer who does not conform to t
year in the space on the right of this

wing

Jan. 1, following

Date	Jan.	Feb.	March								Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0·21	—	—	0·04	—	—	—	—	0·07	0·26	—	—	1
2	0·02	0·10	—	0·54	—	1·38	0·02	—	1·19	0·08	0·10	0·14	2
3	0·01	—	—	0·06	—	0·15	0·39	—	0·28	0·05	1·39	0·26	3
4	—	0·01	—	0·56	0·01	—	0·24	0·04	1·02	0·11	0·06	0·43	4
5	—	0·23	—	—	0·17	0·86	0·31	0·85	0·39	—	—	0·46	5
6	—	0·36	—	0·01	0·04	0·50	0·07	0·04	0·27	0·77	0·33	0·03	6
7	—	0·02	—	—	0·02	0·47	—	0·29	—	0·37	0·12	0·19	7
8	0·10	0·36	0·01	0·07	—	—	0·21	0·34	0·04	0·03	0·19	0·08	8
9	0·02	0·72	0·02	0·28	0·01	0·05	0·01	0·49	0·09	0·14	0·30	0·29	9
10	0·18	0·27	—	—	0·27	0·92	—	0·52	0·07	—	0·50	0·04	10
11	1·18	0·78	—	0·14	0·01	0·04	0·21	0·01	0·52	—	1·00	0·05	11
12	0·09	0·37	—	0·04	—	0·01	0·21	0·07	0·16	0·36	0·05	0·01	12
13	—	—	0·33	—	0·41	0·04	0·15	0·05	—	—	—	—	13
14	0·22	0·16	0·02	0·03	0·01	1·55	0·25	0·72	0·01	—	0·66	0·05	14
15	0·85	0·63	—	0·38	0·20	—	0·11	0·25	—	—	0·01	0·08	15
16	0·61	0·05	—	0·72	0·14	0·21	0·13	0·86	0·34	—	—	—	16
17	0·14	0·04	—	0·15	0·10	0·02	1·31	0·48	0·11	—	0·12	—	17
18	0·89	—	—	0·04	—	0·57	0·72	0·16	0·01	—	0·70	—	18
19	0·42	0·33	—	—	—	—	0·24	1·75	—	0·02	—	0·01	19
20	0·08	0·23	0·10	—	—	0·34	0·03	0·06	—	—	0·13	—	20
21	0·77	0·06	0·21	—	0·12	0·13	0·04	0·07	—	—	0·02	—	21
22	0·43	0·03	—	0·11	0·12	0·04	0·12	—	—	—	0·10	—	22
23	0·38	—	—	0·30	0·32	0·34	0·11	—	—	—	1·01	0·47	23
24	0·01	0·45	—	0·13	0·51	—	0·06	—	—	—	0·22	0·24	24
25	0·29	1·32	—	0·15	0·18	—	0·02	—	—	—	0·10	0·30	25
26	0·06	0·30	—	0·99	—	—	—	—	—	—	0·96	0·12	26
27	0·85	0·09	—	0·11	0·12	—	0·46	—	—	0·40	2·46	0·05	27
28	1·02	0·34	—	0·12	0·24	0·03	0·33	—	0·09	—	0·01	0·10	28
29	0·60	X	—	—	0·14	—	0·21	—	—	1·11	0·02	—	29
30	—	X	—	0·02	—	—	—	—	0·25	—	0·01	—	30
31	0·57	X	—	X	—	X	0·08	—	X	0·04	X	0·08	31
TOTAL	10·00	7·25	0·69	4·99	3·14	7·65	6·04	7·05	4·91	3·74	10·57	3·48	YEAR'S TOTAL 69·51
*Days with ·01 in. or more.	25	23	6	22	20	19	26	18	17	13	25	21	235
*Days with ·04 in. or more.	21	20	3	19	15	16	22	17	15	11	20	18	197

40-9999

(Signed) John P. Ainsworth

P.T.O.

*See Instruction 2 (*f*) on other side.

2869

Section **A** for the entry of ... PY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH ... ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Belmont (Springs)

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. " in.

,, Ground ,, Sea Level 810 ft.

WATERWORKS ENGINEER
15 JAN. 1932
REF.
BOLTON

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0·21	–	–	0·04	–	–	–	–	0·07	0·26	–	–	1
2	0·02	0·10	–	0·54	–	1·38	0·02	–	1·19	0·08	0·10	0·14	2
3	0·01	–	–	0·06	–	0·15	0·39	–	0·28	0·05	1·39	0·26	3
4	–	0·01	–	0·56	0·01	–	0·34	0·04	1·02	0·11	0·06	0·43	4
5	–	0·23	–	–	0·17	0·86	0·31	0·85	0·39	–	–	0·46	5
6	–	0·36	–	0·01	0·04	0·50	0·07	0·04	0·27	0·77	0·33	0·03	6
7	–	0·02	–	–	0·02	0·47	–	0·29	–	0·37	0·12	0·19	7
8	0·10	0·36	0·01	0·07	–	–	0·21	0·34	0·04	0·03	0·19	0·08	8
9	0·02	0·72	0·02	0·28	0·01	0·05	0·01	0·49	0·09	0·14	0·30	0·29	9
10	0·18	0·27	–	–	0·27	0·92	–	0·52	0·07	–	0·50	0·04	10
11	1·18	0·78	–	0·14	0·01	0·04	0·21	0·01	0·52	–	1·00	0·05	11
12	0·09	0·37	–	0·04	–	0·01	0·31	0·07	0·16	0·36	0·05	0·01	12
13	–	–	0·33	–	0·41	0·04	0·15	0·05	–	–	–	–	13
14	0·22	0·16	0·02	0·03	0·01	1·58	0·25	0·72	0·01	–	0·66	0·05	14
15	0·85	0·63	–	0·38	0·20	–	0·11	0·25	–	–	0·01	0·08	15
16	0·61	0·05	–	0·72	0·14	0·21	0·13	0·86	0·34	–	–	–	16
17	0·14	0·04	–	0·15	0·10	0·02	1·31	0·48	0·11	–	0·12	–	17
18	0·89	–	–	0·04	–	0·57	0·72	0·16	0·01	–	0·70	–	18
19	0·42	0·33	–	–	–	–	0·34	1·75	–	0·02	–	0·01	19
20	0·08	0·23	0·10	–	–	0·34	0·03	0·06	–	–	0·13	–	20
21	0·77	0·06	0·21	–	0·12	0·13	0·04	0·07	–	–	0·02	–	21
22	0·43	0·03	–	0·11	0·12	0·04	0·12	–	–	–	0·10	–	22
23	0·38	–	–	0·30	0·32	0·34	0·11	–	–	–	1·01	0·47	23
24	0·01	0·45	–	0·13	0·51	–	0·06	–	–	–	0·22	0·34	24
25	0·29	1·32	–	0·15	0·18	–	0·02	–	–	–	0·10	0·30	25
26	0·06	0·30	–	0·99	–	–	–	–	–	–	0·96	0·12	26
27	0·85	0·09	–	0·11	0·12	–	0·46	–	–	0·40	2·46	0·05	27
28	1·02	0·34	–	0·12	0·34	0·03	0·33	–	0·09	–	0·01	0·10	28
29	0·60	×	–	–	0·14	–	0·31	–	–	1·11	0·02	–	29
30	–	×	–	0·02	–	–	–	–	0·25	–	0·01	–	30
31	0·57	×	–	×	–	×	0·08	–	×	0·04	×	0·08	31
TOTAL	10·00	7·25	0·69	4·99	3·14	7·65	6·04	7·05	4·91	3·74	10·57	3·48	YEAR'S TOTAL 69·51
*Days with ·01 in. or more.	25	23	6	22	20	19	26	18	17	13	25	21	235
*Days with ·04 in. or more.	21	20	3	19	15	16	22	17	15	11	20	18	197

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(Signed) John P. [illegible]

P.T.O.

*See Instruction 2 (*f*) on other side.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2869

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at BELMONT (Springs)

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft - in.

,, Ground ,, Sea Level 810 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0.25	0.01	--	0.48	0.09	--	0.21	--	0.91	0.28	0.19	0.08	1
2	1.59	--	--	--	0.30	--	0.06	0.08	2.24	0.22	0.21	0.66	2
3	0.03	--	--	0.01	--	--	0.12	0.02	0.17	--	0.01	0.18	3
4	0.07	--	--	--	--	--	0.28	--	0.05	0.09	0.09	0.07	4
5	1.34	--	0.12	0.62	0.02	--	0.01	0.01	0.17	--	--	--	5
6	1.18	--	0.06	0.59	0.01	--	0.01	0.02	0.24	--	--	--	6
7	0.19	--	0.93	0.20	--	--	--	--	1.08	0.60	--	--	7
8	0.01	--	--	0.14	--	--	--	--	1.77	0.85	--	--	8
9	0.19	0.02	--	0.31	0.06	--	--	--	0.07	0.01	0.02	0.02	9
10	0.44	0.03	--	0.05	--	--	--	--	0.98	0.46	0.02	--	10
11	0.07	0.02	0.01	0.03	1.02	0.03	0.25	--	0.04	0.04	--	--	11
12	0.37	--	--	--	0.79	0.01	0.09	0.29	0.04	0.55	--	--	12
13	0.03	0.03	--	0.10	0.17	--	0.26	0.01	0.56	0.52	--	0.43	13
14	0.22	--	--	0.11	--	--	0.25	0.15	0.02	0.19	0.06	0.01	14
15	--	--	--	--	0.89	--	--	--	--	0.37	0.10	0.13	15
16	0.28	--	--	--	--	--	0.17	0.02	--	0.48	--	0.21	16
17	--	--	--	--	--	--	0.06	0.11	0.11	0.65	--	0.02	17
18	--	--	--	--	0.18	--	0.02	--	0.05	0.10	0.01	--	18
19	--	--	--	0.23	0.07	--	0.01	--	--	0.57	--	--	19
20	--	--	--	0.09	0.34	--	0.13	0.44	--	0.27	0.08	0.05	20
21	0.06	--	0.41	0.05	0.44	--	0.02	0.34	--	0.60	0.14	0.05	21
22	0.01	--	0.42	0.25	0.01	--	0.17	--	--	0.10	1.29	0.05	22
23	--	0.02	0.02	0.08	0.43	--	0.34	--	--	0.13	0.17	0.13	23
24	0.06	--	--	--	0.03	0.03	0.28	--	0.23	0.05	0.25	0.07	24
25	--	0.02	--	0.17	0.09	0.02	0.02	--	0.23	1.46	0.32	0.01	25
26	--	--	--	0.04	0.15	--	0.62	--	0.25	0.60	0.21	--	26
27	--	--	0.60	0.44	0.28	0.21	0.43	--	--	0.02	0.24	0.15	27
28	--	--	0.07	0.10	0.16	--	0.42	--	--	--	0.01	0.04	28
29	0.25	--	1.11	0.49	0.03	0.17	0.41	0.38	0.17	1.19	0.62	0.20	29
30	--	×	0.38	0.03	0.01	0.56	0.09	0.02	0.03	0.68	0.88	0.18	30
31	0.01	×	0.03	×	0.02	×	0.09	--	×	0.02	×	0.12	31
TOTAL	6.65	0.15	4.16	4.61	5.59	1.03	4.82	1.89	9.41	11.10	4.91	2.86	YEAR'S TOTAL 57.18
*Days with ·01 in. or more.	20	7	12	22	23	7	26	13	21	27	20	21	219
*Days with .04 in. or more.	15	0	9	19	16	3	20	7	19	24	15	17	164

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*See Instruction 2 (*f*) on other side.

(Signed) John P.

P.T.O.

COPY FOR OFFICIAL USE.

Section A for the entry of Daily Observations. Station No. 2867

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at BELMONT (Springs)

in the County of Lancashire.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft -- in.

,, Ground ,, Sea Level 800 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0.02	0.45	0.13	--	0.01	--	0.01	0.06	0.15	--	0.80	--		1
2	0.64	--	0.22	0.48	--	0.18	--	0.26	--	--	--	--		2
3	0.03	0.88	0.51	--	0.45	--	--	0.01	--	--	0.01	--		3
4	0.42	0.11	0.46	--	0.19	--	--	0.04	--	0.03	0.01	--		4
5	0.20	0.24	0.05	--	0.05	--	--	--	--	--	0.03	--		5
6	--	0.17	0.02	--	0.10	--	--	--	--	--	--	0.02		6
7	0.18	0.60	0.26	--	0.02	--	0.42	0.20	--	0.52	--	0.03		7
8	0.46	0.06	0.20	0.09	0.05	--	0.29	0.02	--	--	0.03	0.02		8
9	--	0.48	--	0.34	0.26	--	1.05	0.03	--	0.66	0.26	0.01		9
10	0.29	0.03	--	--	0.03	0.07	0.18	--	--	1.07	0.38	--		10
11	--	--	--	--	--	--	0.23	0.01	--	0.43	--	0.09		11
12	0.03	0.02	--	--	--	0.09	0.34	--	--	0.21	--	0.05		12
13	0.01	--	0.01	--	0.20	--	0.44	0.05	0.03	0.34	0.28	--		13
14	0.14	--	0.02	--	--	--	0.12	0.15	--	0.02	0.82	--		14
15	0.18	--	0.05	--	--	0.03	0.02	0.18	--	0.26	0.26	0.03		15
16	0.24	0.09	0.18	0.14	0.04	0.60	--	--	--	0.20	0.05	0.01		16
17	0.03	--	0.55	0.04	--	1.39	0.06	0.36	0.21	0.01	0.01	0.01		17
18	0.05	0.01	0.38	--	0.21	0.69	--	0.16	--	--	--	0.01		18
19	--	--	0.33	--	--	0.23	0.01	0.03	0.18	--	0.16	0.03		19
20	--	0.40	--	--	0.18	0.15	--	0.58	--	--	--	0.01		20
21	--	--	--	--	--	--	--	0.84	--	--	--	--		21
22	--	--	--	--	--	--	--	0.08	--	0.12	--	--		22
23	--	--	--	0.44	--	0.05	--	0.01	0.05	0.10	--	0.01		23
24	--	0.10	--	0.24	0.20	0.12	--	--	0.40	--	0.01	--		24
25	--	0.56	--	0.08	0.07	--	--	--	0.05	--	--	0.14		25
26	--	1.16	--	0.38	0.01	--	--	--	--	0.72	--	0.02		26
27	--	0.05	--	--	0.22	--	0.01	--	--	--	--	--		27
28	--	0.01	--	0.05	--	--	0.08	0.10	--	0.14	--	--		28
29	--	×	--	--	--	--	0.17	0.01	--	0.02	--	0.14		29
30	0.04	×	0.09	--	0.06	--	0.37	--	--	0.45	--	0.26		30
31	0.44	×	0.08	×	--	×	0.24	0.60	×	0.57	×	--		31
TOTAL	3.40	5.42	3.54	2.28	2.35	3.60	4.04	3.78	1.07	5.87	3.11	0.89	Year's Total 39.35	
*Days with ·01 in. or more.	17	18	17	10	18	11	17	21	7	18	14	17	185	
*Days with ·04 in. or more.	12	14	14	10	14	10	13	14	6	14	8	5	134	

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*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) John P. Ainsworth.

P.T.O.

COPY FOR OFFICIAL USE.

Section A for the entry of Daily Observations. Station No. 2869

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at BELMONT (SPRINGS)

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft - in.

,, Ground ,, Sea Level 810 ft.

WATERWORKS ENGINEER
-9 JAN. 1935
REF.
BOLTON

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0.25	--	0.02	--	--	--	--	0.07	0.10	0.06	0.09	0.68		1
2	0.01	0.01	0.27	--	--	--	--	1.43	0.05	--	0.36	0.85		2
3	0.24	--	--	--	--	--	--	0.15	0.01	0.37	0.11	0.13		3
4	0.32	--	0.25	0.03	0.17	--	--	0.15	0.19	1.19	--	0.98		4
5	--	--	0.10	--	0.17	--	--	0.56	--	0.17	0.03	0.18		5
6	--	--	0.19	0.09	0.72	0.06	--	0.80	0.04	0.43	--	0.57		6
7	0.48	0.05	0.14	0.14	--	0.08	--	--	--	0.18	0.78	0.51		7
8	--	--	0.02	--	0.25	0.16	--	0.08	0.02	0.21	0.93	0.01		8
9	--	0.11	0.18	0.01	--	0.01	--	0.27	0.01	0.06	0.21	0.01		9
10	--	0.02	0.47	0.15	--	--	--	0.68	--	1.07	0.01	--		10
11	0.05	--	0.06	0.44	--	--	--	0.45	--	0.07	0.01	0.21		11
12	--	--	0.03	0.36	--	--	0.09	0.10	--	0.40	--	0.13		12
13	0.42	--	0.02	0.03	0.13	--	0.13	0.02	--	0.31	--	--		13
14	0.59	--	0.20	--	0.07	0.03	--	--	--	0.54	0.01	0.18		14
15	0.59	--	0.38	--	1.27	0.01	0.07	0.18	0.31	0.05	0.01	0.34		15
16	0.50	--	0.19	--	0.32	--	0.03	--	--	0.17	--	--		16
17	0.38	--	0.35	0.09	0.14	--	0.40	--	0.34	0.11	--	0.29		17
18	0.39	--	0.12	0.23	0.79	0.12	--	0.05	0.02	--	--	0.30		18
19	--	--	0.18	--	0.11	0.62	--	0.01	0.63	0.45	--	0.10		19
20	0.01	--	0.02	0.24	0.61	--	--	0.05	0.20	0.28	0.04	0.04		20
21	0.11	--	0.04	--	0.02	1.22	--	0.05	0.07	0.08	--	--		21
22	0.15	--	0.05	--	0.06	--	0.01	0.21	0.74	0.13	0.09	0.01		22
23	0.02	--	0.13	0.75	0.03	--	0.81	0.02	0.01	0.28	0.21	0.14		23
24	--	0.37	0.09	0.57	0.01	0.03	--	--	0.56	0.27	--	--		24
25	0.06	0.01	--	0.11	0.03	--	0.30	--	0.35	0.30	--	0.61		25
26	0.07	--	0.06	0.28	--	0.16	0.38	--	0.31	0.03	0.04	0.01		26
27	--	--	---	0.12	0.01	0.34	0.52	--	0.02	0.31	0.11	0.44		27
28	--	--	--	0.08	--	0.19	0.28	0.51	--	0.62	--	0.99		28
29	--	X	--	--	--	--	0.11	1.25	0.31	0.24	--	0.16		29
30	0.17	X	--	--	--	--	0.08	0.10	0.37	0.31	--	0.04		30
31	0.01	X	--	X	--	X	0.18	0.27	X	0.35	X	0.26		31
													Year's Total	
TOTAL	4.82	0.57	3.56	3.72	4.91	3.03	3.39	7.46	4.66	9.04	3.04	8.17	56.37	
*Days with ·01 in. or more.	20	6	24	17	18	13	14	23	21	29	16	26	227	
*Days with ·04 in. or more.	16	3	19	14	13	9	12	20	15	28	11	22	182	

† Spare column, no entries required.

(Signed)

[P.T.O.

40-9999

*See Instruction 2 (*f*) on other side.

COPY FOR OFFICIAL USE. X

Section **A** for the entry of Daily Observations. Station No. 2869

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Bolton W.W. Springs No 2

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft - in.

,, Ground ,, Sea Level 810 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	1·74	0·89	0·01	0·05	–	0·08	0·26	–	0·44	1·46	0·18	0·30		1
2	0·05	0·39	0·02	–	–	0·25	0·02	–	0·08	0·26	0·12	0·21		2
3	0·27	1·17	0·16	0·17	–	0·05	0·49	–	0·35	0·04	0·13	0·44		3
4	–	0·02	0·08	0·02	–	0·81	0·04	–	0·34	0·14	–	0·02		4
5	–	0·87	0·28	0·25	–	0·19	0·07	–	0·13	0·01	0·29	0·62		5
6	0·01	–	–	0·07	–	0·32	–	–	–	–	–	0·01		6
7	0·02	–	–	0·22	–	0·23	–	–	–	0·23	0·18	0·42		7
8	–	–	–	0·11	–	–	–	–	0·05	0·43	0·11	0·59		8
9	0·04	–	–	0·35	–	0·03	–	–	0·03	1·94	0·32	–		9
10	–	0·27	–	0·23	–	0·02	–	–	–	0·50	0·30	–		10
11	0·66	0·15	–	–	–	0·37	–	0·03	–	0·63	0·07	–		11
12	0·04	0·29	–	–	–	0·48	–	–	0·11	0·03	–	–		12
13	0·23	0·12	–	0·08	0·41	0·01	–	–	0·14	0·13	0·09	–		13
14	0·01	–	–	0·03	0·01	0·14	–	–	0·07	0·01	1·05	0·54		14
15	–	1·91	–	0·44	0·12	–	0·02	–	0·40	0·21	0·03	0·42		15
16	–	0·58	0·12	0·63	0·25	0·16	0·16	0·02	1·06	–	0·28	–		16
17	–	0·01	–	0·56	0·66	0·24	0·17	0·26	0·36	0·17	0·46	–		17
18	–	0·04	–	0·11	0·13	0·08	0·53	0·02	0·76	0·41	0·09	–		18
19	–	0·08	–	0·21	0·11	0·52	0·31	–	0·01	0·19	0·30	0·02		19
20	–	0·91	–	0·57	–	0·29	0·06	–	–	–	0·01	–		20
21	–	0·13	0·04	–	–	–	–	–	1·49	0·31	0·01	0·25		21
22	0·01	0·23	0·12	0·32	–	–	–	–	0·04	–	–	0·03		22
23	0·05	–	1·00	0·08	–	–	–	0·22	0·03	0·58	–	–		23
24	0·93	0·43	0·09	–	–	–	–	0·02	1·46	0·12	0·01	0·14		24
25	0·23	0·01	0·22	–	–	0·45	–	–	0·02	–	0·05	0·08		25
26	–	–	–	–	–	0·01	0·16	1·35	0·63	0·68	0·22	0·24		26
27	–	0·07	–	–	0·06	0·19	0·75	0·03	0·19	2·56	0·71	0·09		27
28	0·04	0·25	–	–	0·02	0·01	–	0·09	0·18	1·33	0·16	0·01		28
29	–	×	0·06	–	–	0·02	–	0·09	0·45	0·57	0·08	0·17		29
30	0·28	×	0·01	–	–	0·33	–	0·38	0·35	0·84	0·84	0·14		30
31	0·12	×	0·06	×	–	×	–	–	×	0·13	×	0·55		31
													Year's Total.	
TOTAL	4·73	8·76	2·27	4·50	1·77	5·28	3·04	2·51	9·17	13·91	6·09	5·27	67·30	
* Days with .01 in. or more.	17	21	14	19	9	24	13	11	25	26	25	21	225	
* Days with .04 in. or more.	13	18	11	17	7	18	11	6	21	23	21	16	182	

WATERWORKS ENGINEER
REF.
17 JAN. 1936
BOLTON

40-9999

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(Signed)

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2869

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Bolton W.W., Springs No. 2
in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, ,, Ground ,, Sea Level 810 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·04	0·14	0·06	0·22	–	0·01	–	0·57	0·08	–	0·44	0·44		1
2	0·05	0·03	–	0·06	–	0·30	0·01	0·11	0·02	–	0·09	0·56		2
3	–	–	–	–	–	0·61	0·06	0·41	0·67	–	–	0·09		3
4	0·27	0·25	0·42	–	–	0·04	0·02	0·08	0·34	–	0·33	0·31		4
5	0·09	0·11	0·74	–	–	0·01	–	0·43	1·02	–	0·02	0·40		5
6	0·16	–	0·01	–	0·06	0·07	0·24	0·78	0·88	–	0·19	–		6
7	–	–	0·18	–	–	–	0·09	–	1·70	–	0·33	0·41		7
8	0·33	–	0·47	–	–	–	–	–	0·02	–	0·55	0·74		8
9	0·32	–	0·08	–	–	0·09	0·08	–	0·31	0·02	1·70	–		9
10	0·20	–	–	–	–	–	0·17	–	0·03	–	1·55	0·01		10
11	–	–	0·01	0·03	–	0·14	1·38	0·07	0·14	–	0·60	–		11
12	–	–	–	0·04	0·04	0·55	0·74	0·05	0·67	0·11	0·10	0·03		12
13	0·02	–	–	0·01	0·06	0·01	0·12	–	–	0·42	0·01	0·83		13
14	–	–	–	0·03	–	0·48	0·03	0·30	0·10	0·32	0·44	1·31		14
15	0·26	–	–	0·09	0·17	0·16	0·10	0·24	0·05	–	0·46	0·07		15
16	0·04	0·14	0·02	0·03	0·04	0·02	0·05	–	–	0·07	0·84	–		16
17	0·15	0·56	–	0·04	0·02	–	0·37	0·19	–	0·66	0·08	0·20		17
18	–	0·02	–	0·08	–	0·02	0·43	0·18	–	0·81	–	0·01		18
19	0·33	0·36	0·01	0·08	–	0·05	0·43	0·84	–	0·13	–	–		19
20	0·33	0·09	0·07	–	–	–	0·05	–	–	0·06	–	–		20
21	0·29	–	–	0·08	–	0·04	–	–	–	0·21	–	0·05		21
22	0·40	0·39	0·06	–	0·01	1·15	0·21	–	–	0·03	–	0·08		22
23	–	0·02	0·12	0·31	0·01	0·01	1·17	–	–	0·08	–	0·01		23
24	0·16	–	–	0·10	0·20	–	0·01	0·01	0·22	0·88	0·02	0·10		24
25	0·41	–	–	0·09	–	–	0·12	–	0·55	0·35	–	0·03		25
26	0·04	0·57	0·06	0·03	–	–	0·01	–	0·25	0·86	–	–		26
27	0·84	0·04	0·01	0·01	–	–	–	–	0·03	0·44	–	–		27
28	0·44	0·25	0·18	0·02	–	0·03	0·12	–	–	–	–	0·15		28
29	0·11	0·32	1·22	–	0·11	0·59	–	0·01	–	0·22	0·62	0·03		29
30	0·56	✕	0·03	–	0·47	0·37	0·73	0·04	–	0·55	0·74	0·07		30
31	0·04	✕	0·01	✕	0·07	✕	0·27	0·12	✕	–	✕	0·74	Year's Total.	31
TOTAL	5·88	3·29	3·76	1·35	1·26	4·75	7·01	4·43	7·08	6·22	8·61	6·17	59·81	
* Days with .01 in. or more.	24	15	19	18	12	21	25	17	18	18	19	23	229	✓
* Days with .04 in. or more.	22	12	12	11	9	14	20	15	14	16	16	17	179	✓

WATERWORKS ENGINEER
12 JAN 1937
BOLTON

40-9999

† Spare column, no entries required.

(*Signed*) John Redworth

* See Instruction 2 (f) on other side.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2869

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

Kept at Bolton W.W. Springs ~~No 2~~

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. — in.

,, Ground ,, Sea Level 800 810 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·02	0·06	0·11	—	—	0·03	0·14	—	0·48	0·05	—	0·14		1
2	0·24	0·37	0·33	0·20	—	0·01	—	—	0·03	0·02	—	—		2
3	—	0·18	0·01	0·07	0·05	0·97	0·11	—	0·01	0·01	—	0·02		3
4	0·47	0·05	0·01	0·12	0·29	—	0·05	—	0·01	—	—	0·62		4
5	1·45	—	0·05	0·03	0·05	0·07	0·03	—	0·04	—	—	0·07		5
6	0·03	—	—	0·23	0·21	—	—	0·14	0·10	0·01	—	0·04		6
7	—	0·24	—	0·45	0·11	0·08	—	—	0·15	—	—	—		7
8	0·02	0·54	0·01	0·11	—	0·27	0·12	—	—	—	0·04	0·02		8
9	0·03	0·34	0·02	0·11	0·28	—	0·83	0·37	—	—	—	—		9
10	0·02	0·27	—	—	0·01	0·02	0·12	—	—	—	—	0·37		10
11	—	0·07	0·11	—	0·31	—	0·02	—	—	—	—	0·01		11
12	0·06	0·55	0·19	—	0·01	0·34	0·11	0·79	0·39	—	—	0·41		12
13	—	0·34	0·02	—	—	0·05	—	0·65	0·06	—	—	0·52		13
14	—	0·17	0·16	—	—	0·01	—	0·41	0·23	—	0·07	0·40		14
15	0·26	0·61	—	0·50	—	—	0·29	—	0·36	—	—	0·08		15
16	0·25	0·86	0·14	0·87	—	—	—	0·34	0·04	—	—	—		16
17	0·12	0·08	0·26	0·73	—	0·05	—	0·05	0·07	—	—	—		17
18	0·27	0·54	0·08	0·32	0·05	—	—	0·36	0·03	0·02	0·32	—		18
19	0·22	0·35	0·17	0·44	—	0·04	0·03	0·06	0·02	—	0·52	—		19
20	0·03	0·12	—	0·24	0·23	0·13	—	—	—	—	0·01	0·26		20
21	0·01	0·09	0·02	0·43	0·02	—	0·62	—	—	0·17	—	0·15		21
22	0·30	0·18	0·09	0·09	0·07	—	0·15	—	—	0·39	0·16	0·21		22
23	0·12	—	0·04	—	0·37	—	0·34	—	—	0·34	0·17	—		23
24	0·08	0·32	0·26	—	0·01	—	0·16	—	0·38	0·33	—	0·15		24
25	0·09	0·78	—	—	—	—	0·01	0·29	0·04	0·12	—	0·07		25
26	—	0·39	0·05	—	0·42	—	—	0·02	0·09	0·01	—	0·04		26
27	—	0·67	0·06	0·17	—	—	—	—	—	0·59	—	0·02		27
28	—	0·04	—	—	—	0·04	—	—	—	0·14	—	—		28
29	0·01	X	—	—	—	0·11	—	—	—	0·05	0·17	—		29
30	0·18	✕	—	—	—	0·46	—	—	0·01	0·26	0·69	—		30
31	0·34	✕	—	✕	0·01	✕	—	0·14	✕	0·21	✕	—		31
TOTAL	4·62	8·21	2·19	5·11	2·50	2·68	3·13	3·62	2·54	2·72	2·15	3·60	Year's Total 43·07	
* Days with .01 in. or more.	23	25	21	17	17	16	16	12	19	16	9	19	210	
* Days with .04 in. or more.	15	25	15	16	12	12	12	11	13	11	8	15	165	

WATERWORKS ENGINEER
12 JAN 1938
BOLTON

40-9999.

† Spare column, no entries required.

(Signed) .... [P.T.O.

* See Instruction 2 (f) on other side.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations | Station No. 2869

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1130

REGISTER OF RAINFALL IN 1938

Kept at Bolton W.W. Springs No. 2

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. – in.

,, Ground ,, Sea Level 800 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	–	0·03	–	0·08	–	0·82	–	0·19	0·01	0·22	0·13	0·50		1
2	–	0·05	–	0·60	0·01	0·58	0·05	–	–	1·85	0·25	0·49		2
3	0·02	–	0·04	–	–	0·04	0·22	–	0·35	1·69	0·46	0·03		3
4	0·05	0·01	0·01	0·36	–	0·11	0·70	0·08	–	0·43	0·27	1·39		4
5	0·07	0·01	–	0·04	–	–	0·39	0·47	0·18	0·65	–	0·05		5
6	0·22	–	–	–	–	0·09	0·31	–	0·83	0·47	0·01	0·04		6
7	0·44	0·02	0·01	–	–	–	0·83	0·03	0·15	0·39	–	–		7
8	0·60	0·01	–	–	–	–	0·75	0·01	–	1·14	–	0·45		8
9	0·20	0·70	0·54	–	–	0·68	0·22	–	–	0·13	–	0·20		9
10	0·01	0·10	0·21	–	–	0·15	1·06	–	0·01	0·18	–	0·18		10
11	0·17	0·19	–	–	0·07	0·05	0·21	1·03	0·10	0·24	0·12	0·09		11
12	0·28	–	–	–	0·36	–	0·01	0·07	–	1·85	0·75	0·01		12
13	0·01	0·02	–	–	0·06	–	0·12	–	0·18	0·17	0·31	0·20		13
14	0·26	0·01	–	–	0·24	0·02	0·08	–	0·12	0·01	0·17	–		14
15	0·31	–	–	–	0·02	0·01	0·16	0·55	–	0·06	–	0·19		15
16	0·41	–	0·11	–	0·12	–	0·09	0·26	0·01	0·18	0·19	0·08		16
17	–	–	–	–	0·62	–	0·28	0·34	0·30	0·70	0·06	0·05		17
18	0·13	–	–	–	0·12	0·05	–	0·78	0·04	0·58	0·42	–		18
19	0·01	–	–	–	–	0·02	–	0·15	0·09	–	0·01	0·02		19
20	0·50	–	0·07	–	–	–	–	0·09	0·16	–	0·50	0·02		20
21	0·05	–	0·02	–	–	–	–	0·15	0·01	–	0·06	0·05		21
22	–	–	–	–	0·06	0·33	–	–	–	–	0·67	0·04		22
23	0·02	–	–	0·01	0·29	0·63	–	0·03	0·08	–	0·55	–		23
24	0·26	0·12	0·31	–	0·11	0·05	–	0·74	0·02	0·05	0·15	–		24
25	0·31	0·52	0·11	–	0·03	0·18	0·19	–	–	0·58	0·58	0·09	40	25
26	0·48	0·44	0·58	–	0·19	0·27	–	–	0·02	0·56	0·31	0·18		26
27	0·88	0·24	–	–	0·54	0·42	0·31	0·14	–	–	0·56	–		27
28	0·34	0·07	0·35	–	0·09	1·10	0·17	0·05	0·05	0·05	0·03	0·21		28
29	0·32	X	0·19	–	1·71	0·31	0·42	–	–	0·28	0·18	0·92		29
30	0·45	X	–	–	0·25	–	0·07	–	0·54	0·01	0·54	0·17		30
31	0·22	X	0·10	X	0·46	X	–	–	X	0·75	X	1·06		31
TOTAL	7·02	2·54	2·65	1·09	5·35	5·91	6·64	5·16	3·25	13·22	7·28	6·71	Year's Total 66·82	
* Days with .01 in. or more.	27	16	14	5	19	20	21	18	20	25	24	25	234	
* Days with .04 in. or more.	22	9	11	4	16	17	20	15	14	23	21	21	193	

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) John P.

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2869

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939.

Kept at Bolton W.W. Springs No 2.
in the County of S. Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 800 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·64	—	0·18	0·28	—	—	0·08	0·08	0·06	0·02	—	0·45		1
2	0·05	—	—	0·14	—	—	0·83	0·71	0·84	—	0·09	0·18		2
3	0·09	—	0·01	0·09	—	—	—	0·14	0·07	—	0·06	0·85		3
4	0·11	0·01	0·38	0·39	0·09	—	0·35	—	—	0·08	0·05	0·91		4
5	—	0·02	—	—	0·47	—	0·23	0·09	—	0·25	0·31	0·01		5
6	1·25	0·30	—	—	0·01	—	0·62	0·04	—	—	0·04	—		6
7	0·22	0·34	0·05	—	—	—	0·14	—	—	—	0·10	0·61		7
8	0·37	0·15	0·35	0·07	—	—	0·60	0·17	—	0·12	0·43	0·56		8
9	0·13	0·52	—	—	—	—	—	0·70	—	0·47	0·17	0·60		9
10	0·16	0·07	0·03	—	—	0·28	—	0·03	0·78	0·30	0·02	0·28		10
11	0·40	0·32	0·34	—	—	0·26	—	0·01	—	—	0·02	—		11
12	0·45	0·09	—	—	—	0·04	—	—	0·01	—	0·04	—		12
13	0·01	—	0·02	0·32	0·19	0·33	0·39	—	0·06	0·02	0·03	—		13
14	0·87	0·01	—	0·21	0·47	0·85	0·40	—	—	—	0·44	—		14
15	0·17	0·10	—	0·94	0·01	1·22	0·26	—	—	—	0·18	—		15
16	0·15	—	0·12	0·07	0·36	—	0·01	—	—	0·17	0·15	—		16
17	0·69	0·48	—	0·02	0·20	0·06	—	—	—	0·44	0·11	—		17
18	0·06	0·59	0·08	—	—	0·18	0·28	—	—	—	0·80	—		18
19	0·22	—	—	—	0·02	0·01	0·74	—	—	—	0·01	—		19
20	0·11	—	0·07	—	—	0·04	0·68	0·09	0·01	—	—	—		20
21	0·20	0·09	0·75	0·18	0·06	—	0·14	0·12	0·03	—	—	—		21
22	0·18	0·30	0·27	0·10	—	—	0·08	—	—	0·03	0·81	—		22
23	0·03	0·69	0·01	0·64	—	0·07	0·03	—	—	0·67	0·20	0·02		23
24	0·01	0·28	—	0·14	—	0·04	0·02	—	—	0·12	0·02	—		24
25	0·13	0·29	0·01	0·01	—	—	—	—	—	—	1·76	0·01		25
26	0·01	0·01	—	—	—	—	—	0·01	—	0·09	0·68	0·01		26
27	0·01	1·66	0·04	—	0·01	0·53	0·18	0·08	—	0·01	0·44	0·08		27
28	0·01	0·22	0·10	—	—	0·37	1·08	—	—	—	1·12	—		28
29	—	×	0·01	—	—	0·02	1·77	—	—	0·05	0·19	—		29
30	—	×	—	—	—	0·19	0·22	—	—	—	0·84	—		30
31	—	×	—	×	—	×	0·34	0·01	×	—	×	—		31
TOTAL	6·73	6·54	2·82	3·60	1·89	4·49	9·47	2·28	1·84	2·84	9·11	4·57	Year's Total 56·18	
* Days with .01 in. or more.	27	21	18	15	11	16	23	14	8	15	27	13	208	
* Days with .04 in. or more.	21	17	12	13	7	14	20	10	5	11	22	9	161	

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

† Spare column, no entries required.

* See Instruction 3 (*f*) on other side.

(*Signed*) ……………………

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2869

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1940.

Kept at Bolton W.W., Springs

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 800 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	—	—	—	0·35	—	0·01	0·04	—	0·01	—	0·73	0·38		1
2	—	0·02	—	0·32	—	—	0·37	—	—	—	0·59	0·32		2
3	—	0·10	0·01	0·51	—	—	0·64	—	—	0·05	0·05	0·39		3
4	—	0·13	—	0·06	—	—	0·17	—	—	0·39	0·16	0·72		4
5	—	0·01	—	—	0·14	—	0·09	—	0·01	0·77	0·03	0·63		5
6	0·12	0·27	—	—	—	—	0·04	—	—	0·46	0·07	0·10		6
7	0·12	0·28	0·01	0·36	0·02	—	0·42	0·32	0·33	0·08	0·03	—		7
8	0·01	—	0·07	0·06	—	—	0·01	0·06	—	0·36	0·06	0·42		8
9	—	—	0·42	—	—	—	0·77	0·34	0·82	0·87	1·84	0·61		9
10	—	—	0·12	—	—	—	0·36	0·44	—	0·30	0·72	0·58		10
11	—	—	0·16	0·28	—	0·01	0·18	—	—	—	1·75	0·02		11
12	—	—	0·30	—	—	0·14	0·13	0·06	0·71	—	0·49	—		12
13	—	0·03	0·15	0·01	—	—	—	0·13	0·76	—	0·25	0·03		13
14	—	0·05	0·05	0·44	0·14	—	0·02	0·24	0·20	—	0·20	0·60		14
15	0·02	—	0·05	0·15	0·09	0·03	—	—	0·13	—	0·12	0·09		15
16	0·08	0·10	0·16	0·25	—	—	0·21	—	1·66	0·36	0·02	0·28		16
17	—	—	0·70	—	0·04	—	1·43	—	0·36	—	0·86	0·04		17
18	0·06	0·19	0·14	0·33	—	—	0·05	0·63	0·22	—	0·01	0·53		18
19	—	0·28	0·42	0·03	—	—	0·34	—	0·33	0·01	0·23	0·01		19
20	—	0·01	0·02	0·31	—	—	0·44	0·60	0·34	0·28	0·17	—		20
21	—	—	0·25	0·04	—	0·37	0·05	0·06	—	0·03	0·57	—		21
22	—	0·04	0·10	—	0·14	0·13	—	0·22	0·33	—	—	—		22
23	0·01	0·33	0·04	0·17	0·07	—	0·16	—	0·14	—	0·13	—		23
24	0·58	0·04	0·01	—	0·03	—	0·02	0·01	0·02	0·03	—	0·01		24
25	0·05	—	—	—	0·09	0·08	0·10	—	—	0·01	—	—		25
26	0·68	0·31	0·01	—	0·03	0·15	0·18	0·01	—	—	0·08	—		26
27	*(1·25)	1·21	—	0·96	—	—	0·30	—	0·01	—	0·21	—		27
28	*(0·75)	0·27	—	—	0·12	—	—	0·29	—	—	—	0·19		28
29	—	—	0·51	—	—	0·38	0·09	—	—	0·03	—	1·47		29
30	—	✕	—	0·02	—	—	—	—	—	0·55	0·02	0·44		30
31	0·08	✕	0·11	✕	0·04	✕	—	0·15	✕	0·90	✕	0·01		31
													Year's Total	
TOTAL	3·81	3·67	3·81	4·65	0·95	1·30	6·61	3·56	6·38	5·48	9·39	7·87	57·48	✓
* Days with .01 in. or more.	13	18	22	18	12	9	25	15	17	17	25	22	213	✓
* Days with .04 in. or more.	10	14	17	15	9	6	22	13	13	12	20	17	168	

WATERWORKS ENGINEER
15 JAN 1941
BOLTON

*Estimated.

* See Instruction 3 (f) on other side.

† Spare column, no entries required

(*Signed*)

[P.T.O.

2872

FORM 1090. **B** Mon
Sun

2872

BOLTON, EAGLEY W.W.

1931 —— 40

780502

*** The following register of monthly … d also the space for
&c., is NOT required if daily or
values are given on the other sid

RAINFALL IN 1931

At Bolton W.W., Eagley

In the County of S. Lancas

Rain Gauge
Diameter of Funnel 5
Height of Top above Ground 1 *ft*
Height of Ground above Sea Level

Month.	Total Depth.	Greatest Fall in 24 hours.		Num Day ·01 in or mo	
	Inches.	Inches.	Date.	*	
JAN.	9·20				
FEB.	7·12				
MAR.	·75				
APRIL	4·75				
MAY	3·01				
JUNE	7·10				
JULY	5·80				
AUG.	6·75				
SEPT.	4·80				
OCT.	3·52				
NOV.	10·45				
DEC.	3·28				
Total	66·53				

Signature Bolton Corporation W.W.
per J.P. Ainsworth

*See Instruction 2 (*f*) below.

ter should be sent:—

n Summer

Direction from gauge

Direction from gauge

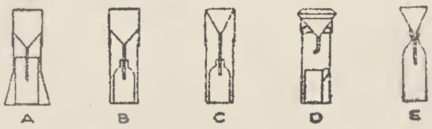
Directions from gauge ..

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

2872

FORM 1090. **B** Mo
Summary.

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1931

At Bolton W.W. Eagley

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* ~~2872~~ 546 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	9·20				
FEB.	7·12				
MAR.	·75				
APRIL	4·75				
MAY	3·01				
JUNE	7·10				
JULY	5·80				
AUG.	6·75				
SEPT.	4·80				
OCT.	3·52				
NOV.	10·45				
DEC.	3·28				
Total	66·53				

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter ...... in Summer ......

Nearest Railway Station ...... Distance ...... Direction from gauge ......

Nearest Parish Church at ...... Distance ...... Direction from gauge ......

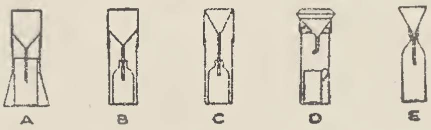
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move ...... Distance ...... Direction ......

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

FORM 1090.

2872

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Eagley

In the County of Lancs.

Rain Gauge
Diameter of Funnel .... in.
Height of Top above Ground ...... ft. ...... in.
Height of Ground above Sea Level ...... ft.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6·46				
FEB.	·19				
MAR.	4·20				
APRIL	4·48				
MAY	5·62				
JUNE	1·11				
JULY	4·73				
AUG.	1·75				
SEPT.	8·50				
OCT.	9·75				
NOV.	4·88				
DEC.	2·87				
Total	54·54				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter ...... in Summer ......

Nearest Railway Station ...... Distance ...... Direction from gauge ......

Nearest Parish Church at ...... Distance ...... Direction from gauge ......

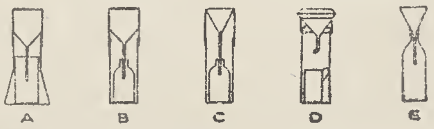
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move ...... Distance ...... Direction ......

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copies from printed list

Copy by B.R.O.
18 JAN 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

2872

FORM 1090.

B Monthly Summary.

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1933.

At Bolton W.W., Eagley.

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 546 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·60				
FEB.	5·00				
MAR.	3·76				
APRIL	2·20				
MAY	2·50				
JUNE	3·02				
JULY	3·86				
AUG.	3·69				
SEPT.	1·15				
OCT.	5·75				
NOV.	3·01				
DEC.	·81				
Total	38·35				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

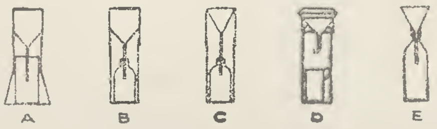
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed Table.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\begin{array}{r|}17\\18\end{array}\Big\}\cdot 14\Big|$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(506) Wt.24107/1845 15000 3/33. Gp. 119/110.

2842.

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Eagley

In the County of S. Lancs

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 546 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4.80				
FEB.	0.60				
MAR.	3.70				
APRIL	3.73				
MAY	5.25				
JUNE	3.00				
JULY	3.24				
AUG.	6.48				
SEPT.	4.95				
OCT.	8.60				
NOV.	2.98				
DEC.	8.21				
Total	55.54				

✓

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2872

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W., Eagley No. 4

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft* = *in.*

Height of Ground above Sea Level 546 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·19				
FEB.	7·96				
MAR.	1·96				
APRIL	4·54				
MAY	1·72				
JUNE	5·17				
JULY	2·90				
AUG.	2·77				
SEPT.	9·22				
OCT.	11·65				
NOV.	6·15				
DEC.	5·04				
Total	62·27				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Mr. John P. Ainsworth, B.Sc., A.M.I.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 1 7/8 mls Direction from gauge E. by N.

Nearest Parish Church at Walmsley Distance 3/4 ml Direction from gauge S.E.

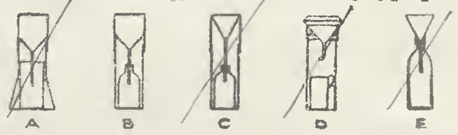
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
17 JAN. 1936
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{c}17\\18\end{array}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

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(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2872

FORM 1090.

B Monthly Summary.

* The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W., Eagley No. 4

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft* 0 *in.*
Height of Ground above Sea Level 546 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·00				
FEB.	3·39				
MAR.	4·00				
APRIL	1·35				
MAY	1·03				
JUNE	4·56				
JULY	6·44				
AUG.	4·20				
SEPT.	5·59				
OCT.	6·42				
NOV.	8·83				
DEC.	6·35				
Total	58·16				

Signature John P. Ainsworth.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engr., St. George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2 mls. Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 2 mls. Direction from gauge W.N.W.

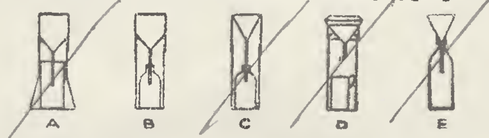
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN. 1937
REF. ....
BOLTON

D INSTRUCTIONS.

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9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

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(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2872

Form 1090.

B Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937

At Bolton W.W., Eagley ~~No 1~~

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel ....5.... in.
Height of Top above Ground ....1.... *ft.* ....–.... *in.*
Height of Ground above Sea Level ....546.... *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
Jan.	4·49				
Feb.	8·65				
Mar.	2·40				
April	4·52				
May	2·50				
June	2·37				
July	2·57				
Aug.	3·15				
Sept.	2·35				
Oct.	2·65				
Nov.	2·22				
Dec.	3·60				
Total	41·47				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station,

TRAVELLING FORM
VALUES ~~FORWARDED MONTHLY~~

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter ....9 a.m.... in Summer ....9 a.m....

Nearest Railway Station ~~Edgworth~~ Turton Distance 2 mls. Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 2 mls. Direction from gauge W.N.W.

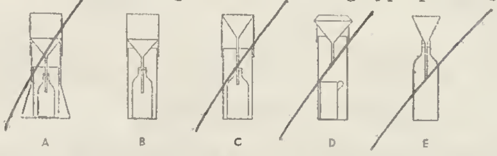
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move.............................. Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1938
REF.................
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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Wt.3430/1699 15,000 2/35 W. H. & S. 668/91.

2872

FORM 1090.

B Monthly Summary.

, **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1938.

At Bolton W.W., Eagley No 4

In the County of S. Lancashire

Rain Gauge:
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* – *in.*
Height of Ground above Sea Level 546 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	7·10				
FEB.	2·67				
MAR.	2·43				
APRIL	0·67				
MAY	5·11				
JUNE	6·07				
JULY	6·45				
AUG.	4·81				
SEPT.	3·24				
OCT.	13·02				
NOV.	7·30				
DEC.	6·64				
TOTAL	65·48				

Signature John P. Ainsworth

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :— Mr John P. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2 mls Direction from gauge N.N.E.

Nearest Parish Church at Belmont Distance 2 mls Direction from gauge N.N.W.

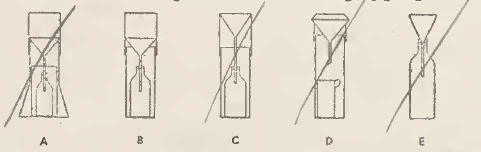
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move ... Distance ... Direction ...

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2872

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939.

At Bolton W.W., Eagley No. 4

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 546 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·84 ✓				
FEB.	6·39 ✓				
MAR.	2·96 ✓				
APRIL	3·52 ✓				
MAY	1·79 ✓				
JUNE	4·32 ✓				
JULY	9·62 ✓				
AUG.	2·52 ✓				
SEPT.	1·55 ✓				
OCT.	2·69 ✓				
NOV.	9·08 ✓				
DEC.	4·46 ✓				
TOTAL	55·74				

Signature John S. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John S. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2 mls Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 2 mls Direction from gauge W.N.W.

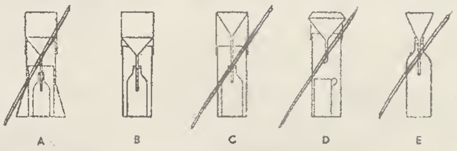
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

TRAVELLING FORM
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

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9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt. 3079/2165 25,500 12/37 W. H. & S. 668/91 S.O. Code No. 40-9999

Form 1090.

2872 ✓

B Monthly Summary.

* The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 19~~3~~40

At Bolton W.W., Eagley

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 546 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
Jan.	(*3·65)				
Feb.	3·59				
Mar.	3·77				
April	4·35				
May	1·16				
June	1·25				
July	4·20				
Aug.	(*3·25)				
Sept.	6·02				
Oct.	5·27				
Nov.	9·26				
Dec.	7·95				
Total	(53·72) ✓				

*Estimated.

Signature John P. Ainsworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2 mls. Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 2 mls. Direction from gauge W.N.W.

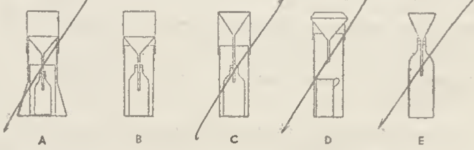
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move............ Distance............ Direction............

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN 1941
Ref.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

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(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

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Wt. 3079/2165 25,500 12/37 W. H. & S. 668/91
S.O. Code No. 40-9999

X EAGLEY

Section **A** for the entry
AIR MINIS

FORM 1090.

REG

tation No. 2872/5
L ORGANIZATION.

5.

813743/27

Kept at ~~Turton Tower~~
in the County of Lancaster
Diameter of Funnel of Gauge....
Height of top of Gauge above
,, Ground ,, S

see file

12/37

THE MORNING MEASU

An observer who does not confor
year in the space on the right of
following
F

Jan. 1, following

2872/5

TURTON TOWER
1935 —— 40

780502

Date	Jan.	Feb.	Mar.									Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·88	·49	·01	·04	-	·06	·17	-	·38	1·17	·13	·44		1
2	·01	·32	·02	-	Trace	·30	Trace	-	·07	·18	·03	·10		2
3	·12	·88	·12	·13	-	·04	·39	-	·31	·09	·14	·38		3
4	Trace	·02	·15	Trace	-	·53	·03	-	·47	·22	-	·01		4
5	-	·65	·08	·40	-	·28	·06	Trace	·29	Trace	·21	·33		5
6	Trace	·01	Trace	·10	-	·27	-	-	-	-	-	Trace		6
7	Trace	Trace	-	·23	-	·40	-	-	-	·31	·19	·38		7
8	-	-	-	·12	-	-	-	Trace	·01	·32	·17	·68		8
9	·03	-	Trace	·37	-	·03	-	-	-	1·83	·21	-		9
10	·01	·09	Trace	·18	-	·01	Trace	Trace	-	·65	·24	-		10
11	·61	·13	-	-	-	·46	-	·01	-	·49	·08	-		11
12	Trace	·31	-	-	-	·38	-	-	·09	·01	-	-		12
13	·14	·08	-	·11	·30	Trace	-	-	·24	·11	·04	-		13
14	Trace	Trace	-	·09	·02	·14	-	Trace	·07	·01	1·06	·56		14
15	Trace	1·83	-	·51	·09	·04	·01	-	·42	·26	·03	·34		15
16	-	·50	·11	·38	·26	·19	·12	Trace	1·08	-	·27	-		16
17	-	·01	Trace	·38	·65	·26	·57	·04	·21	·09	·40	-		17
18	Trace	·04	Trace	·08	·10	·03	·16	-	·70	·38	·15	-		18
19	-	·09	-	·27	·04	·52	·37	-	Trace	·17	·31	·01		19
20	-	·75	-	·51	-	·22	·01	-	-	·01	Trace	-		20
21	-	·10	·04	-	-	Trace	-	-	1·39	·25	·02	·16		21
22	Trace	·22	·16	·19	-	-	Trace	-	·01	-	-	·03		22
23	·05	Trace	1·00	·12	-	-	-	·35	·05	·51	-	-		23
24	·60	·59	·06	·01	-	-	-	-	1·38	·10	-	·19		24
25	·17	·01	·14	-	-	·36	-	-	-	-	·16	·04		25
26	-	-	-	-	-	-	·08	1·22	·63	·59	·15	·25		26
27	-	·10	-	-	·06	·09	·62	-	·21	1·51	·67	·04		27
28	·05	·21	-	-	·03	-	-	·07	·11	·71	·09	Trace		28
29	Trace	X	·04	-	-	Trace	-	·20	·47	·37	·15	·20		29
30	·15		Trace	-	-	·29	-	·25	·56	·87	·80	·12		30
31	·10		·02		-		-	-		·18		·61		31
TOTAL	2·92	7·43	1·95	4·22	1·55	4·90	2·59	2·14	9·15	11·39	5·70	4·87	Year's Total 58·81	
* Days with .01 in. or more.	13	22	13	19	9	21	12	7	22	26	23	19	206	
* Days with .04 in. or more.	10	18	10	18	7	18	9	6	20	23	20	16	175	

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) ~~Reginald Gaskell~~ [P.T.O.

N X TURTON U.D.C. X

X EAGLEY

Section **A** for the entry of Daily Observations.

Station No. 2872/5

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at ~~Turton Tower~~
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 583·68 ft.

It has been noted in 23 A
of f 813743/27 that
this record was
actually at Turton (Turton Tower)
Erratum to BR 1935. 11/2/37 ✓

813743/27

see file

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·88	·49	·01	·04	-	~~·06~~	·17	-	·38	1·17	·13	·44		1
2	·01	·32	·02	-	Trace	·30	Trace	-	·07	·18	·03	·10		2
3	·12	·88	·12	·13	-	·04	·39	-	·31	·09	·14	·38		3
4	Trace	·02	·15	Trace	-	·53	·03	-	·47	·22	-	·01		4
5	-	·65	·08	·40	-	·28	·06	Trace	·29	Trace	·21	·33		5
6	Trace	·01	Trace	·10	-	·27	-	-	-	-	-	Trace		6
7	Trace	Trace	-	·23	-	·40	-	-	-	·31	·19	·38		7
8	-	-	-	·12	-	-	-	Trace	·01	·32	·17	·68		8
9	·03	-	Trace	·37	-	·03	-	-	-	1·83	·21	-		9
10	·01	·09	Trace	·18	-	·01	Trace	Trace	-	·65	·24	-		10
11	·61	·13	-	-	-	·46	-	·01	-	·49	·08	-		11
12	Trace	·31	-	-	-	·38	-	-	·09	·01	-	-		12
13	·14	·08	-	·11	·30	Trace	-	-	·24	·11	·04	-		13
14	Trace	Trace	-	·09	·02	·14	-	Trace	·07	·01	1·06	·56		14
15	Trace	1·83	-	·51	·09	·04	·01	-	·42	·26	·03	·34		15
16	-	·50	·11	·38	·26	·19	·12	Trace	1·08	-	·27	-		16
17	-	·01	Trace	·38	·65	·26	·57	·04	·21	·09	·40	-		17
18	Trace	·04	Trace	·08	·10	·03	·16	-	·70	·38	·15	-		18
19	-	·09	-	·27	·04	·52	·37	-	Trace	·17	·31	·01		19
20	-	·75	-	·51	-	·22	·01	-	-	·01	Trace	-		20
21	-	·10	·04	-	-	Trace	-	-	1·39	·25	·02	·16		21
22	Trace	·22	·16	·19	-	-	Trace	-	·01	-	-	·03		22
23	·05	Trace	1·00	·12	-	-	-	·35	·05	·51	-	-		23
24	·60	·59	·06	·01	-	-	-	-	1·38	·10	-	·19		24
25	·17	·01	·14	-	-	·36	-	-	-	-	·16	·04		25
26	-	-	-	-	-	-	·08	1·22	·63	·59	·15	·25		26
27	-	·10	-	-	·06	·09	·62	-	·21	1·51	·67	·04		27
28	·05	·21	-	-	·03	-	-	·07	·11	·71	·09	Trace		28
29	Trace	X	·04	-	-	Trace	-	·20	·47	·37	·15	·20		29
30	·15	✕	Trace	-	-	·29	-	·25	·56	·87	·80	·12		30
31	·10	✕	·02	✕	-	✕	-	-	✕	·18	✕	·61		31
TOTAL	2·92	7·43	1·95	4·22	1·55	4·90	2·59	2·14	9·15	11·39	5·70	4·87	Year's Total 58·81	Print
* Days with .01 in. or more.	13	22	13	19	9	21	12	7	22	26	23	19	206	
* Days with .04 in. or more.	10	18	10	18	7	18	9	6	20	23	20	16	175	

40-9999.

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) ~~Reginald Gant~~ [P.T.O.

N X TURTON U.D.C. X

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2872/5

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1936.

Kept at (Turton Tower) Turton.

in the County of Lancaster.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 583.68 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	.03	.22	.09	.17	-	.01	.03	.54	.09	-	.29	.33		1
2	.02	.11	-	.06	-	.30	-	.08	.02	-	.08	.30		2
3	-	-	-	-	-	.57	.03	.21	1.25	-	-	.07		3
4	.35	.31	.37	-	-	.03	.01	.04	.27	-	.26	.37		4
5	.13	.04	.63	-	-	.01	trace	.80	.69	-	trace	.36		5
6	.16	-	.01	-	trace	.03	.15	.24	.79	-	.22	-		6
7	-	-	.18	-	-	-	.05	-	1.38	-	.37	.53		7
8	.37	-	.36	-	-	-	-	-	.01	-	.52	.11		8
9	.32	-	.05	-	-	.03	.06	-	.18	.01	1.53	.01		9
10	.11	-	-	trace	-	-	.11	-	.01	-	1.54	-		10
11	-	-	.01	.05	-	.12	.84	.06	.13	-	.66	trace		11
12	-	-	-	.05	.05	.76	.63	.01	.53	.10	.11	-		12
13	.01	-	-	.02	.04	trace	.09	-	-	.37	trace	.80		13
14	-	-	trace	.03	-	.52	.06	.19	.09	.22	.26	1.25		14
15	.26	trace	-	.08	.11	-	.06	.30	.03	-	.61	.06		15
16	.03	.15	trace	.01	.02	.14	.07	-	-	.05	.82	.01		16
17	.15	.56	trace	.03	.01	-	.10	.13	-	.76	.08	.17		17
18	-	.04	-	.03	-	.04	.33	.15	-	1.06	-	.01		18
19	.37	.34	.02	.04	-	.13	.35	.73	-	.13	-	-		19
20	.27	.12	.08	-	-	-	.04	trace	-	.03	-	trace		20
21	.19	-	-	.08	-	.10	trace	-	-	.15	-	.04		21
22	.37	.32	.08	trace	.02	1.36	.40	-	-	.01	-	.04		22
23	-	.01	.14	.30	.01	trace	.85	trace	-	.07	trace	trace		23
24	.23	.01	-	.10	.16	-	.01	trace	.17	.82	.01	.05		24
25	.37	trace	.01	.07	-	-	.09	-	.40	.42	-	.03		25
26	.13	.41	.07	.03	-	trace	.01	-	.20	.77	trace	-		26
27	.95	.03	trace	trace	-	-	trace	-	.04	.39	-	-		27
28	.21	.30	.20	trace	trace	.13	.12	-	-	.01	.05	.18		28
29	.08	.23	1.75	-	.12	.57	.08	trace	-	.22	.26	.01		29
30	.40	✕	.04	-	.55	.02	.71	.01	-	.47	.20	.10		30
31	.03	✕	.05	✕	.03	✕	.04	.04	✕	trace	✕	.77		31
TOTAL	5.54	3.20	4.14	1.15	1.12	4.87	5.32	3.53	6.28	6.06	7.87	5.60	Year's Total 54.68	✓
* Days with .01 in. or more.	24	16	18	16	11	18	26	15	18	19	18	22	221	✓
* Days with .04 in. or more.	19	13	14	10	6	12	21	13	14	15	17	17	171	✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) Reginald Dart.

Turton U.D.C.

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2872/5.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937

Kept at Turton Tower, Turton

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 583·68 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·02	·08	·03	–	–	·01	·11	–	·32	·05	–	·23		1
2	·26	·37	·20	·20	–	·02	–	–	·02	·01	–	·01		2
3	–	·24	·02	·13	·10	·82	·18	–	·02	–	–	·02		3
4	·34	·02	·03	·05	·17	–	·03	–	·01	–	–	·70		4
5	1·78	–	·01	·01	·02	·05	·02	–	·03	–	–	·07		5
6	·02	–	trace	·24	·16	–	–	·18	·07	trace	trace	·05		6
7	·01	·26	–	·44	·12	·15	–	–	·13	–	–	–		7
8	·01	·60	·01	·08	trace	·13	·38	–	trace	–	·04	·02		8
9	·02	·24	trace	·12	·23	–	·35	·29	–	–	–	–		9
10	·01	·23	·01	–	–	·03	·02	–	–	–	–	·47		10
11	–	·03	·22	–	·14	–	·02	–	–	–	–	–		11
12	·08	·55	·19	–	·01	·10	·05	·20	·42	–	–	·50		12
13	–	·32	·01	trace	–	·13	–	·82	·01	·01	–	·23		13
14	–	·11	·22	–	–	·01	–	·45	·22	trace	·04	·41		14
15	·28	·62	–	·44	–	–	·28	–	·36	–	–	·07		15
16	·17	·70	·24	·80	trace	–	–	·27	·09	–	–	·01		16
17	·10	·11	·26	·39	–	·05	–	·03	·07	–	–	–		17
18	·18	·38	·09	·56	·11	–	·02	·39	·01	–	·54	–		18
19	·16	·37	·11	·44	–	·03	·01	·03	trace	–	·42	–		19
20	·03	·17	–	·15	·30	·16	·16	–	–	–	·01	·29		20
21	·01	·11	·03	·30	–	–	·45	–	–	·15	–	·14		21
22	·17	·02	·07	·02	·07	–	·17	–	–	·37	·30	·17		22
23	·17	–	·02	–	·37	–	·32	–	trace	·40	·18	trace		23
24	·21	·48	·17	–	·02	–	·02	–	·20	·37	–	·15		24
25	trace	·77	–	–	–	–	–	·28	·08	·03	–	·06		25
26	–	·39	·04	–	·39	–	trace	–	·02	trace	–	·03		26
27	–	·58	·04	·14	–	–	–	–	–	·60	–	·02		27
28	–	·05	–	–	–	·05	–	–	–	·15	–	–		28
29	trace	×	–	–	–	·05	–	–	–	·03	·20	–		29
30	·18	×	–	–	–	·32	–	–	·01	·16	·53	·01		30
31	·33	×	–	×	trace	×	–	·15	×	·24	×	–		31
TOTAL	4·54	7·80	2·02	4·51	2·21	2·11	2·59	3·09	2·09	2·57	2·26	3·66	Year's Total 39.45	✓
* Days with .01 in. or more.	22	25	21	17	14	16	17	11	18	13	9	21	204	✓
* Days with .04 in. or more.	14	22	12	15	11	11	10	9	10	9	8	14	145	✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) Reginald Dart.

[P.T.O.

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Section **A** for the entry of Daily Observations

Station No. 2872/5

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

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Diameter of Funnel of Gauge 5 in.

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,, Ground ,, Sea Level 583·68 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	–	·02	–	·01	–	·88	–	·20	–	·34	·16	·36		1
2	·01	·04	–	·61	·01	·52	·03	–	trace	1·89	·27	·43		2
3	·01	–	·01	·05	–	·02	·25	–	·24	1·58	·31	·04		3
4	·02	·02	trace	·24	–	·12	·37	·14	–	·47	·20	1·07		4
5	·05	·01	–	·02	–	·03	·33	·33	·17	·51	trace	·03		5
6	·26	–	–	–	–	·08	·40	–	·68	·40	·01	·04		6
7	·38	trace	trace	–	–	–	·67	·02	·15	·36	–	·03		7
8	·59	·04	–	–	–	–	·57	–	–	1·21	–	·27		8
9	·12	·68	·36	–	–	·42	·11	–	–	·09	–	·20		9
10	trace	·04	·07	–	–	·31	·77	–	·01	·16	–	·18		10
11	·18	·11	–	–	·09	·04	·14	·20	·04	·24	·14	·07		11
12	·31	–	–	–	·31	–	–	·06	–	1·70	·60	trace		12
13	·01	trace	–	–	·07	–	·09	–	·15	·17	·17	·33		13
14	·36	·03	–	–	·22	·02	·07	–	·03	trace	·20	trace		14
15	·32	–	·01	–	·03	–	·25	·45	–	·07	–	·25		15
16	·38	–	·08	–	·30	–	·06	·22	·04	·20	·20	·08		16
17	–	–	–	–	·74	–	·21	·38	·22	·63	·05	·06		17
18	·13	–	–	–	·07	·09	–	·68	·08	·58	·45	–		18
19	·01	–	–	–	–	–	–	·20	·15	–	·01	·02		19
20	·50	–	·07	–	–	–	–	·15	·16	–	·41	·01		20
21	–	–	·01	–	–	–	–	·08	trace	–	·06	·04		21
22	–	–	–	–	·09	·36	–	–	–	–	·61	·03		22
23	·02	–	–	–	·25	·48	–	·02	·10	–	·56	–		23
24	·50	·22	·22	trace	·05	·16	·05	·57	·01	·05	·15	trace		24
25	·12	·43	·13	–	·04	·05	·23	–	–	·55	·63	·10		25
26	·28	·40	·34	–	·19	·63	–	–	trace	·47	·21	·11		26
27	·79	·19	–	–	·45	·11	·28	·13	trace	–	·60	trace		27
28	·29	·08	·21	–	·04	1·05	·18	·05	·07	·04	·02	·13		28
29	·21	✕	·16	–	1·43	·35	·43	–	–	·30	·19	·68		29
30	·45	✕	–	–	·11	·01	·01	–	·52	trace	·54	·12		30
31	·28	✕	·04	✕	·43	✕	–	–	✕	·65	✕	1·12		31
													Year's Total	
TOTAL	6·58	2·31	1·71	0·93	4·92	5·73	5·44	3·82	2·82	12·66	6·75	5·80	59·47	
* Days with .01 in. or more.	26	14	13	5	19	20	21	17	17	23	24	25	224	
* Days with .04 in. or more.	20	10	10	3	17	16	19	15	14	23	21	20	188	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) Reginald Dart.

[P.T.O.

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FORM 1090

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,, Ground ,, Sea Level 538·68 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·40	·	·22	·34	·	·	·20	·09	·01	·04	·	·48		1
2	·05	·	·	·12	·	·	·62	·58	·69	·	·05	·13		2
3	·14	·	Trace	·09	·	·	·	·12	·07	·	·08	·73		3
4	·11	·	·34	·45	·09	·	·42	·	·	·22	·02	·71		4
5	·	·01	·	·	·40	·	·33	·16	·	·22	·33	·01		5
6	1·23	·30	·	·	·	·	·58	·02	·	·	·04	·		6
7	·22	·34	·09	·	·	·	·20	·02	·	·	·15	·53		7
8	·22	·15	·36	·06	·	·	·59	·05	·	·16	·35	·46		8
9	·11	·50	·	·	·	·	·04	·48	·01	·45	·16	·61		9
10	·14	·05	·04	·	·	·22	·	·05	·61	·28	·01	·20		10
11	·37	·25	·25	·	·	·29	·	·01	·02	·	·01	·		11
12	·40	·09	·	·	·	·04	·	·	·03	·	·01	·		12
13	Trace	·	·	·28	·12	·28	·26	·	·02	·02	·03	·		13
14	·89	Trace	·	·07	·58	·70	·45	·	·	·	·40	·		14
15	·19	·10	Trace	·87	·05	1·05	·33	·	·	·	·18	·		15
16	·13	·	·05	·08	·33	·	·02	·	·	·10	·10	·		16
17	·78	·44	·	·01	·10	·03	·	·	·	·23	·11	·		17
18	·07	·36	·03	·	·	·19	·35	·	·	·	·73	·		18
19	·24	·	·	·	·02	·01	·42	·	·	·	·	·		19
20	·09	·	·09	·	·	·05	·57	·12	·	·	·	·		20
21	·14	·11	·73	·13	·06	·	·27	·76	·02	·	·	·		21
22	·17	·37	·25	·20	·	·	·06	·	·	·03	·90	·		22
23	·01	·48	·02	·35	·	·05	·03	·	·	·60	·16	·04		23
24	Trace	·26	·	·01	·	·01	·03	Trace	·	·04	·02	·		24
25	·17	·20		·02	·	·01	·	·	·	·	1·75	·02		25
26	Trace	·01	·	·	·	·	·	·64	·	·14	·65	·01		26
27	·01	1·60	·06	Trace	·	·49	·13	·02	·	·01	·44	·07		27
28	·	·20	·12	·	·	·45	·97	·	·	·	1·01	·		28
29	·		·01	·	·	·01	1·61	·	·	·05	·20	·		29
30	·	✕	·	·	·	·12	·24	·	·	·	·70	·		30
31	·	✕	·	✕	·	✕	·27	·02	✕	Trace	✕	·		31
													Year's Total	
TOTAL	6·28	5·82	2·66	3·08	1·75	4·00	8·99	3·14	1·48	2·59	8·59	4·00	52·38	
* Days with .01 in. or more.	23	19	15	15	9	17	24	15	9	15	26	13	200	
* Days with .04 in. or more.	21	17	12	12	8	12	21	10	3	12	20	10	158	

† Spare column, no entries required.

(Signed) Reginald Dart.

* See Instruction 3 (f) on other side.

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2872/5.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19~~3~~40

Kept at Turton Tower, Turton.

in the County of Lancaster.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 583.68 ft.

Jan ests from nearby stns

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	-	.02	-	.25	-	-	.03	-	.09	-	.83	.32		1
2	-	.01	-	.35	-	-	.23	-	-	-	.56	.38		2
3	.01	.19	-	.33	-	-	.48	-	-	.03	.06	.27		3
4	-	.10	-	.09	-	-	.15	-	.01	.38	.20	.54		4
5	-	-	-	-	.08	-	.04	-	-	.78	.03	.73		5
6	.11	.28	-	-	-	-	.05	-	-	.42	.03	.16		6
7	.12	.25	.01	.31	.05	-	.23	.27	.21	.07	.02	trace		7
8	Trace	-	.04	.05	-	-	.01	.06	-	.36	.10	.41		8
9	-	-	.25	trace	-	-	.98	.19	.51	.93	1.68	.41		9
10	-	-	.09	-	-	-	.43	.40	-	.18	.55	.61		10
11	-	.01	.18	.12	-	.03	.13	.09	.01	-	1.84	-		11
12	-	-	.27	-	-	.07	.14	.06	.57	-	.54	-		12
13	-	.03	.14	-	-	-	-	.13	.79	-	.14	.04		13
14	-	.12	.08	.47	.20	-	-	-	.24	-	.12	.57		14
15	.01	-	trace	.08	.04	.09	-	-	.07	-	.12	.08		15
16	.06	.14	.19	.13	-	-	.18	-	1.57	.32	.05	.20		16
17	-	-	.56	-	.10	-	1.24	-	.28	-	.60	.04		17
18	.07	.16	.14	.40	-	-	.01	.38	.24	-	-	.46		18
19	-	.27	.37	.03	-	-	.22	-	.38	.01	.37	.01		19
20	-	.01	.06	.34	-	-	.26	.50	.27	.24	.08	-		20
21	-	-	.24	.01	-	.32	.02	.03	-	.03	.68	-		21
22	-	.04	.06	-	.15	.10	.01	.10	.27	-	-	-		22
23	-	.22	.03	.16	.01	-	.15	-	.10	-	.13	-		23
24	.74	.01	.01	-	.02	-	.05	.01	.01	.04	-	.02		24
25	.03	-	-	trace	.01	.07	.10	-	-	.02	-	-		25
26	(.68) ~~.88~~	.27	-	.03	.03	.15	.06	trace	trace	-	.13	-		26
27	1.34	1.11	-	.09	.01	-	.35	-	-	-	.19	trace		27
28	(.60) ~~1.20~~	.15	-	-	.19	-	-	.21	-	-	-	.19		28
29	(.03) ~~.23~~	-	.46	.01	-	.31	.05	-	-	.03	.01	1.18		29
30	.03	X	-	.02	-	-	-	-	-	.58	.02	.24		30
31	.08	X	.10	X	.04	X	-	-	X	1.01	X	.01		31
TOTAL	3 4.91	3.39	3.28	3.27	.93	1.14	5.60	2.43	5.62	5.43	9.08	6.87	Year's Total ~~51.95~~	50.95
* Days with .01 in. or more.	14	19	19	19	13	8	25	13	17	17	25	21	210	
* Days with .04 in. or more.	10	13	16	14	8	7	20	11	14	12	20	18	163	

† Spare column, no entries required.

(*Signed*) Reginald Dart.

* See Instruction 3 (f) on other side.

[P.T.O.

FORM 1090. **B** Mon
Sum

2873

2873

HORDERN

1931 —— 40

780502

, The following register of monthly
&c., is NOT required if daily or
values are given on the other sid

i also the space for

ler should be sent:—
C.E.
Se, Bolton.

RAINFALL IN 1931

At Hordern.
In the County of Lancash

Rain Gauge
Diameter of Funnel 5
Height of Top above Ground 1 *ft.*
Height of Ground above Sea Level 11

n Summer 9 a.m.
nts. Direction from gauge E.
mt. Direction from gauge E.N.E.

Month.	Total Depth.	Greatest Fall in 24 hours.		Num Day ·01 in or mor	
	Inches.	Inches.	Date.	*	
JAN.	7·29	Monthly readings	taken		
FEB.	8·58				
MAR.	0·84				
APRIL	4·63				
MAY	2·97				
JUNE	7·98				
JULY	5·39				
AUG.	6·82				
SEPT.	5·11				
OCT.	3·86				
NOV.	10·11				
DEC.	3·88				
Total	64·13				

Signature John Unsworth

*See Instruction 2 (*f*) below.

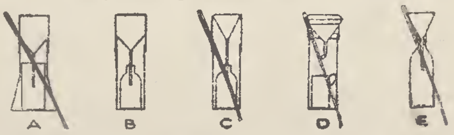
Directions from gauge ..

If gauge has been moved during the year state—

Date of move............ Distance............ Direction............

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN. 1932
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.* 9 *a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02, *or* 0·3.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

2873

FORM 1090. **B** Mon
Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1931

At Hordern.
In the County of Lancashire.

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* – *in.*
Height of Ground above Sea Level 1160 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in or more	Number of Days with ·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	7·29	Monthly readings	taken.		
FEB.	8·88				
MAR.	0·84				
APRIL	4·63				
MAY	2·97				
JUNE	7·98				
JULY	8·39				
AUG.	6·82				
SEPT.	5·11				
OCT.	3·56				
NOV.	10·11				
DEC.	3·88				
Total	64·13				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:— John P. Ainsworth, B.Sc., A.M.Inst.C.E., Waterworks Engineer, St George's St, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton Edgworth Distance 4 mls. Direction from gauge E.

Nearest Parish Church at Belmont Distance ¾ ml. Direction from gauge E.N.E.

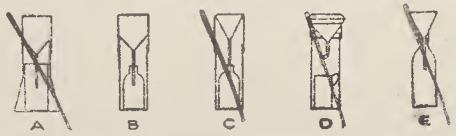
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN. 1932
REF. ....
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

FORM 1090.

2873

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Horden

In the County of Lancs

Rain Gauge
Diameter of Funnel.......in.
Height of Top above Ground.......ft.......in.
Height of Ground above Sea Level.......ft.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6·19				
FEB.	·18				
MAR.	4·23				
APRIL	4·05				
MAY	5·52				
JUNE	1·13				
JULY	5·73				
AUG.	1·59				
SEPT.	8·17				
OCT.	10·27				
NOV.	4·41				
DEC.	2·73				
Total	54·20				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter.......in Summer.......

Nearest Railway Station....... Distance....... Direction from gauge.......

Nearest Parish Church at....... Distance....... Direction from gauge.......

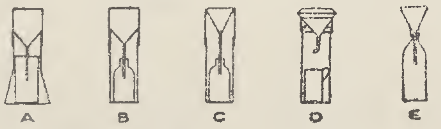
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move....... Distance....... Direction.......

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list.

Copy by B.R.O.
16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

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(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2873

FORM 1090. **B** Monthly Summary.

C Particulars of Station.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933.

At HORDERN

In the County of Lancashire.

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* -- *in.*
- *Height of Ground above Sea Level* 1,160 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3.25	Readings taken monthly.			
FEB.	4.73				
MAR.	3.80				
APRIL	2.58				
MAY	2.90				
JUNE	3.60				
JULY	3.75				
AUG.	4.00				
SEPT.	1.04				
OCT.	5.34				
NOV.	3.20				
DEC.	0.93				
Total	39.12 ✓				

Signature John P. Ainsworth.

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, St. George's St., BOLTON.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 4 mls. Direction from gauge E.

Nearest Parish Church at Belmont Distance ¾ ml. Direction from gauge E.N.E.

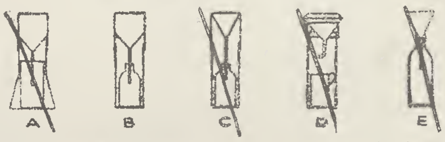
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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D

2873

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934.

At Hordern

In the County of Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft* - *in.*

Height of Ground above Sea Level 1160 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4.08	Readings taken	monthly.		
FEB.	0.50				
MAR.	3.45				
APRIL	3.73				
MAY	4.69				
JUNE	3.11				
JULY	2.81				
AUG.	7.19				
SEPT.	4.91				
OCT.	7.73				
NOV.	3.41				
DEC.	8.57				
Total	54.18				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, St. George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 4 mls. Direction from gauge E.

Nearest Parish Church at Belmont Distance 3/4 ml. Direction from gauge E.N.E.

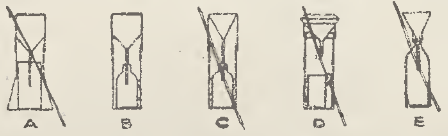
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
-9 JAN. 1935
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

M.O. JAN 1935

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2873

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935.

At Bolton W.W., Hordern

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* = *in.*
- *Height of Ground above Sea Level* 1160 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·60				
FEB.	7·00				
MAR.	1·90				
APRIL	4·15				
MAY	2·00				
JUNE	5·19				
JULY	2·47				
AUG.	2·54				
SEPT.	8·97				
OCT.	11·04				
NOV.	6·02				
DEC.	5·19				
Total	60·07				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 4 mls. Direction from gauge E.

Nearest Parish Church at Belmont Distance ¾ ml. Direction from gauge E.N.E.

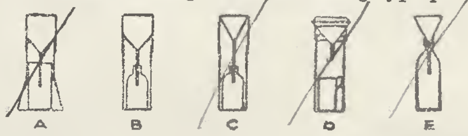
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
17 JAN. 1936
REF. ....
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2873

FORM 1090. **B** Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W., Hordern

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 1160 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·53				
FEB.	3·21				
MAR.	3·82				
APRIL	1·44				
MAY	1·21				
JUNE	5·29				
JULY	6·88				
AUG.	4·26				
SEPT.	6·20				
OCT.	5·96				
NOV.	7·65				
DEC.	6·19				
Total	57·64				

Signature John P. Ainsworth

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:— Mr. John P. Ainsworth, B.Sc., A.M.I.C.E., Waterworks Engr., St. George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 4 mls. Direction from gauge E.

Nearest Parish Church at Belmont Distance 3/4 ml. Direction from gauge E.N.E.

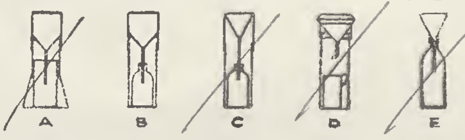
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

- (a) Is it known that the gauge was empty at the beginning of the measured rainfall?
- (b) What note was made of the times of beginning and end of this fall?
- (c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

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  9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.
- (*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
  - (A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
  - (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.
- (*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.
- (*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\ \cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.
- (*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.
- (*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*
- (*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.
- (*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2873

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937.

At Bolton W.W., Hordern

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 1160 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·96				
FEB.	6·38				
MAR.	2·40				
APRIL	5·32				
MAY	2·75				
JUNE	3·03				
JULY	2·98				
AUG.	3·35				
SEPT.	2·48				
OCT.	2·87				
NOV.	2·48				
DEC.	3·50				
TOTAL	41·50				

Signature John P. Ainsworth

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

*See Instruction 2 (*f*) below.

C

TRAVELLING FORM.

Particulars of Station,

VALUES FORWARDED MONTHLY

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 am in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 4 mls Direction from gauge E

Nearest Parish Church at Belmont Distance 3/4 ml Direction from gauge E N E.

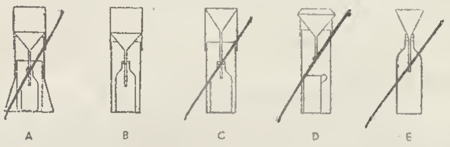
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.* *9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2873

FORM 1090.

B Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W., Hordern

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 1160 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·23				
FEB.	2·24 ✓				
MAR.	2·43 ✓				
APRIL	0·92 ✓				
MAY	5·70 ✓				
JUNE	6·33 ✓				
JULY	6·81 ✓				
AUG.	5·20 ✓				
SEPT.	3·95 ✓				
OCT.	11·63 ✓				
NOV.	7·44 ✓				
DEC.	5·87 ✓				
TOTAL	64·75 ✓				

Signature John P Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Mr. John P. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 4 mls. Direction from gauge E.

Nearest Parish Church at Belmont Distance 3 mls. Direction from gauge E.N.E.

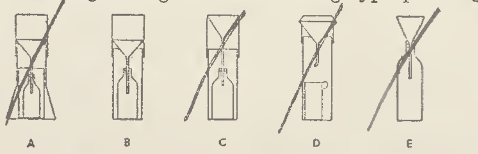
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

TRAVELLING FORM.
ES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following **rules** should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) The rain-gauge should be visited every morning without exception. When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction. An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) The total rainfall for the month is found by addition. The addition should always be done a second time as a check. The check is of special importance when the total has already been found in another copy of the register.

(f) The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt.1046/3030. 26,000. 4/36. W. H. & S. 668/91. S.O. Code No. 40-9999

2873

Form 1090.

B Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939.

At Bolton W.W., Hordern.

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1160 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·75	✓			
FEB.	5·91	✓			
MAR.	2·74	✓			
APRIL	3·68	✓			
MAY	1·90	✓			
JUNE	5·20	✓			
JULY	9·84	✓			
AUG.	2·70	✓			
SEPT.	1·88	✓			
OCT.	3·04	✓			
NOV.	8·58	✓			
DEC.	4·36	✓			
TOTAL	56·58	✓			

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 4 mls. Direction from gauge E.

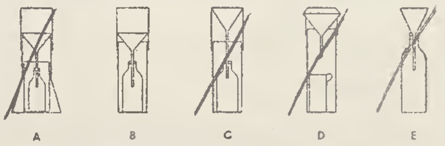
Nearest Parish Church at Belmont Distance 3 mls. Direction from gauge N.E.

Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are marked A and B.)
If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

TRAVELLING FORM
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
  (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
  (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2873

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1940.

At Bolton W.W., Hordern

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1160 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*(3·85)				
FEB.	*(3·65)				
MAR.	3·77				
APRIL	4·26				
MAY	1·23				
JUNE	1·32				
JULY	7·65				
AUG.	3·64				
SEPT.	5·97				
OCT.	5·48				
NOV.	8·42				
DEC.	6·46				
TOTAL	(55·70)				

*Estimated.

Signature John P. Ainsworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
John P. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 am in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 4 mls Direction from gauge E.

Nearest Parish Church at Belmont Distance ¾ ml. Direction from gauge E.N.E.

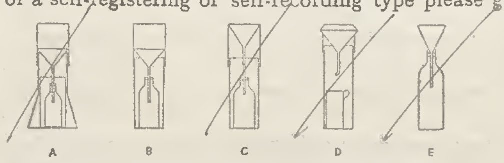
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN 1941
Ref
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

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(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

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Bolton, Delph W.W.
1931 — 40

780502

Form 1090.

B

, The following register of mo
&c., is NOT required if dail
values are given on the othe

n and also the space for

register should be sent:—

RAINFALL IN 19

* At Bolton W.W. Delp

In the County of S. Lanc

Rain Gauge
Diameter of Funnel
Height of Top above Ground 1
Height of Ground above Sea Leve

...in Summer...

Direction from
ce... gauge ...

Direction from
ce... gauge ...

Directions from
gauge ..

Month.	Total Depth.	Greatest Fall in 24 hours.			
	Inches.	Inches.	Date		
Jan.	9·12				
Feb.	7·03				
Mar.	·65				
April	4·26				
May	3·36				
June	6·91				
July	6·09				
Aug.	6·65				
Sept.	5·14				
Oct.	3·57				
Nov.	10·17				
Dec.	3·24				
Total	66·19				

Signature Bolton Corporation W.W.
per. J. P. Ainsworth

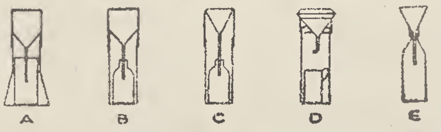
*See Instruction 2 (*f*) below.

If gauge has been moved during the year state—

Date of move... Distance... Direction...

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

* Gauge over exposed prior to Jan. 1929. from which date there has been erected round the gauge a standard turf wall 10 ft. dia. the top of which is level & 6 ins. above the lip of gauge.

D

INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\begin{matrix}17\\18\end{matrix}\left.\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090. **B**

2874

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1931

* At Bolton W.W. Delph

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 710 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	9·12				
FEB.	7·03				
MAR.	·65				
APRIL	4·26				
MAY	3·36				
JUNE	6·91				
JULY	6·09				
AUG.	6·65				
SEPT.	5·14				
OCT.	3·57				
NOV.	10·17				
DEC.	3·24				
Total	66·19				

Signature Bolton Corporation W.W.
per. J. P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

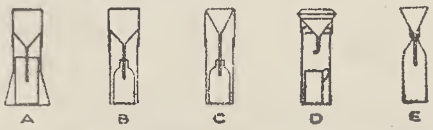
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

* Gauge over exposed prior to Jan. 1929. from which date there has been erected round the gauge a standard turf wall 10 ft. dia. the top of which is level a 6 ins. above the lip of gauge.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

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(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

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2374

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Delph

In the County of Lancs.

Rain Gauge
- Diameter of Funnel .... in.
- *Height of Top above Ground* .... *ft.* .... *in.*
- *Height of Ground above Sea Level* .... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in or more	Number of Days with ·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6·51				
FEB.	·20				
MAR.	4·09				
APRIL	4·84				
MAY	5·65				
JUNE	1·09				
JULY	4·68				
AUG.	1·85				
SEPT.	8·09				
OCT.	10·69				
NOV.	4·77				
DEC.	3·02				
Total	55·48				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

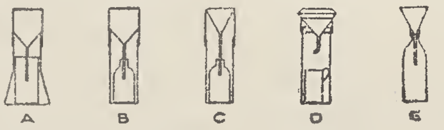
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed List

Copy by B.R.O.

16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

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(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

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2874

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933

At Bolton W.W., Delph

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 710 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·33				
FEB.	5·42				
MAR.	3·42				
APRIL	2·39				
MAY	2·35				
JUNE	2·97				
JULY	3·95				
AUG.	3·53				
SEPT.	1·12				
OCT.	5·75				
NOV.	2·96				
DEC.	·76				
Total	37·95				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

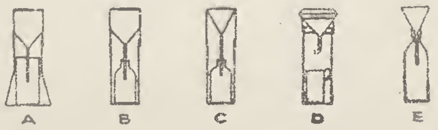
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list.
Turf wall round gauge

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

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D

2874

FORM 1090.

B Monthly Summary.

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1934

At Delph

In the County of S Lancs

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft* 0 *in.*
Height of Ground above Sea Level 410 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4·74				
FEB.	0·47				
MAR.	3·65				
APRIL	3·87				
MAY	5·31				
JUNE	3·23				
JULY	2·74				
AUG.	6·44				
SEPT.	4·95				
OCT.	8·45				
NOV.	2·78				
DEC.	7·44				
Total	54·07				

✓

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter ...... in Summer ......

Nearest Railway Station ...... Distance ...... Direction from gauge ......

Nearest Parish Church at ...... Distance ...... Direction from gauge ......

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move ...... Distance ...... Direction ......

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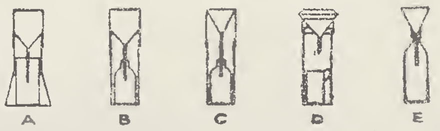

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(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet.

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No. 7
JAN 1935

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COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations. Station No. 2874

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Bolton W.W., Delph

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft – in.

,, Ground ,, Sea Level 710 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	1·20	0·35	0·01	0·06	–	0·08	0·15	–	0·50	1·25	0·20	0·31		1
2	0·05	0·24	0·02	–	–	0·27	0·01	–	0·09	0·26	0·10	0·24		2
3	0·16	1·11	0·12	0·13	–	0·08	0·40	–	0·27	0·05	0·15	0·44		3
4	–	0·03	0·08	0·01	–	0·75	0·04	–	0·52	0·14	–	0·02		4
5	–	0·48	0·15	0·37	–	0·24	0·05	–	0·42	–	0·24	0·20		5
6	–	0·01	–	0·07	–	0·30	–	–	–	–	–	0·01		6
7	0·02	–	–	0·20	–	0·26	–	–	–	0·24	0·15	0·39		7
8	–	–	–	0·10	–	–	–	–	–	0·35	0·08	0·58		8
9	0·03	–	–	0·30	–	0·04	–	–	–	1·92	0·36	–		9
10	–	0·24	–	0·25	–	0·01	–	–	–	0·46	0·34	–		10
11	0·41	0·20	–	–	–	0·34	–	0·02	–	0·58	0·09	–		11
12	0·02	0·30	–	–	–	0·51	–	–	0·11	0·01	–	–		12
13	0·23	0·10	–	0·09	0·38	0·01	–	–	0·10	0·12	0·08	–		13
14	0·01	–	–	0·06	–	0·19	–	–	0·06	0·01	1·07	0·54		14
15	0·01	1·30	–	0·45	0·11	0·03	–	–	0·30	0·22	0·11	0·60		15
16	–	0·50	0·09	0·47	0·22	0·20	0·12	0·02	0·94	–	0·10	–		16
17	–	–	0·03	0·54	0·80	0·25	0·20	0·07	0·38	0·13	0·33	–		17
18	–	0·04	–	0·02	0·09	0·07	0·52	0·02	0·80	0·40	0·07	–		18
19	–	0·08	–	0·16	0·09	0·48	0·27	–	0·01	0·08	0·30	0·03		19
20	–	0·80	–	0·59	–	0·29	0·07	–	–	0·03	0·01	–		20
21	–	0·11	0·05	0·01	–	–	–	–	1·56	0·31	0·08	0·03		21
22	–	0·19	0·14	0·30	–	–	–	–	0·10	–	–	0·19		22
23	0·05	0·01	0·57	0·09	–	–	–	0·29	0·03	0·56	–	0·02		23
24	0·66	0·65	0·07	0·02	–	–	–	0·02	1·60	0·15	–	0·26		24
25	0·22	0·04	0·18	–	–	0·19	–	–	–	–	0·03	0·06		25
26	–	–	–	–	–	–	0·11	1·21	0·64	0·67	0·23	0·22		26
27	–	0·11	–	–	0·06	0·15	0·70	–	0·18	2·21	0·59	0·09		27
28	0·05	0·20	–	–	0·02	–	–	0·09	0·06	1·17	0·14	0·02		28
29	–	×	0·04	–	–	0·02	–	0·11	0·35	0·35	0·06	0·20		29
30	0·23	×	0·01	–	–	0·32	–	0·41	0·44	0·85	0·93	0·09		30
31	0·08	×	0·05	×	–	×	–	–	×	0·16	×	0·58		31
TOTAL	3·43	7·09	1·61	4·29	1·77	5·08	2·64	2·26	9·46	12·68	5·84	5·12	Year's Total. 61·27	
* Days with .01 in. or more.	16	22	15	21	8	23	12	10	22	26	24	22	221	
* Days with .04 in. or more.	11	19	11	17	7	19	11	6	20	23	22	16	182	

WATERWORKS ENGINEER
17 JAN 1936
REF.....
BOLTON

40-9999

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(Signed) John Duckworth

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2874

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1030.

REGISTER OF RAINFALL IN 1936.

Kept at Bolton W.W., Delph

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 710 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·07	0·11	0·13	0·24	—	0·01	—	0·50	0·04	—	0·29	0·36		1
2	0·02	0·04	—	0·05	—	0·26	—	0·16	0·03	—	0·10	0·48		2
3	—	—	—	—	—	0·53	0·03	0·40	0·95	—	—	0·07		3
4	0·35	0·27	0·39	—	—	0·04	0·02	0·05	0·24	—	0·32	0·40		4
5	0·10	0·01	0·60	—	—	0·01	—	0·40	0·76	—	—	0·45		5
6	0·21	—	0·04	—	0·02	0·06	0·22	0·70	0·94	—	0·23	—		6
7	—	—	0·20	—	—	—	0·08	—	1·39	—	0·44	0·36		7
8	0·35	—	0·42	—	—	—	—	—	0·03	—	0·55	0·31		8
9	0·37	—	0·13	—	—	0·07	0·06	—	0·23	0·03	1·45	0·01		9
10	0·13	—	—	—	—	—	0·17	—	0·02	—	1·85	0·01		10
11	—	—	0·01	0·02	—	0·15	1·25	0·03	0·11	—	0·55	0·02		11
12	—	—	—	0·10	0·04	0·67	0·75	0·06	0·67	0·10	0·06	0·02		12
13	—	—	—	0·04	0·04	0·02	0·10	—	—	0·34	0·01	0·93		13
14	—	—	—	0·06	—	0·51	0·03	0·27	0·09	0·42	0·36	1·15		14
15	0·20	—	—	0·16	0·13	0·20	0·14	0·26	0·05	—	0·53	0·08		15
16	0·05	0·13	0·02	0·04	0·02	0·02	0·06	—	—	0·06	0·83	—		16
17	0·25	0·63	—	0·04	0·01	—	0·18	0·18	—	0·77	0·12	0·20		17
18	—	0·03	—	0·01	—	0·02	0·40	0·19	—	0·97	—	0·02		18
19	0·45	0·40	0·01	0·08	—	0·07	0·35	0·82	—	0·17	—	—		19
20	0·35	0·12	0·12	—	—	—	0·05	—	—	0·05	—	—		20
21	0·23	0·02	0·01	0·11	—	0·03	—	—	—	0·20	—	0·06		21
22	0·40	0·50	0·07	—	0·02	1·22	0·16	—	—	0·04	—	0·07		22
23	—	0·06	0·12	0·30	0·03	0·01	1·26	—	—	0·10	—	0·02		23
24	0·24	0·01	—	0·11	0·09	—	0·01	0·01	0·19	0·96	0·01	0·11		24
25	0·42	—	—	0·02	—	—	0·10	—	0·51	0·38	—	0·07		25
26	0·03	0·45	0·05	0·07	—	0·01	—	—	0·16	0·80	0·01	—		26
27	0·85	0·07	0·02	—	—	—	—	—	0·08	0·43	—	—		27
28	0·35	0·38	0·10	0·01	—	0·03	0·15	—	—	—	0·01	0·17		28
29	0·14	0·33	1·20	—	0·10	0·55	0·01	0·01	—	0·24	0·51	0·03		29
30	0·48	✕	0·02	—	0·35	0·30	0·55	0·01	—	0·52	0·23	0·07		30
31	0·03	✕	0·01	✕	0·04	✕	0·25	0·07	✕	—	✕	0·80		31
TOTAL	6·07	3·66	3·67	1·46	0·89	4·79	6·38	4·12	6·49	6·58	8·46	6·27	Year's Total 58·84	
* Days with .01 in. or more.	23	17	20	17	12	22	24	17	18	18	20	25	233	✓
* Days with .04 in. or more.	20	14	13	13	7	13	19	13	15	17	16	18	178	✓

WATERWORKS ENGINEER
12 JAN 1937
REF.
BOLTON

40-9999

† Spare column, no entries required.

(Signed)

[P.T.O.

* See Instruction 2 (f) on other side.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2874

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 109

REGISTER OF RAINFALL IN 1937.

Kept at Bolton Delph Reservoir

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. – in.

,, Ground ,, Sea Level 710 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·02	0·05	0·13	—	—	0·02	0·10	—	0·47	0·06	—	0·20		1
2	0·16	0·36	0·25	0·16	—	0·01	0·01	—	0·03	0·01	—	0·01		2
3	—	0·12	0·01	0·02	0·05	0·89	0·11	—	0·01	—	—	0·02		3
4	0·40	0·05	0·01	0·17	0·18	—	0·06	—	0·02	—	—	0·59		4
5	1·42	—	0·06	0·02	0·01	0·07	0·03	—	0·03	—	—	0·11		5
6	0·02	—	—	0·23	0·17	—	—	0·12	0·09	0·01	—	0·08		6
7	—	0·32	—	0·34	0·12	0·11	—	—	0·13	—	—	0·02		7
8	0·02	0·58	0·01	0·08	—	0·30	0·08	—	0·01	—	0·03	0·02		8
9	0·02	0·28	0·01	0·15	0·23	—	0·60	0·32	—	—	—	—		9
10	0·03	0·30	—	—	0·01	0·02	0·06	—	—	—	—	0·24		10
11	—	0·09	0·12	—	0·23	—	0·03	—	—	—	—	—		11
12	0·07	0·62	0·30	—	0·01	0·16	0·05	0·70	0·40	—	—	0·25		12
13	—	0·30	0·02	—	—	0·05	—	0·58	0·10	0·01	—	0·34		13
14	—	0·16	0·23	—	—	0·01	—	0·48	0·25	0·02	0·07	0·45		14
15	0·27	0·51	0·01	0·40	—	—	0·28	—	0·30	—	—	0·10		15
16	0·23	0·75	0·17	0·85	—	—	—	0·30	0·10	—	—	—		16
17	0·12	0·05	0·27	0·24	—	—	—	0·07	0·06	—	—	—		17
18	0·22	0·41	0·09	0·83	0·09	—	—	0·33	0·03	—	0·31	—		18
19	0·14	0·28	0·13	0·50	—	0·08	0·02	0·05	0·02	—	0·63	—		19
20	0·04	0·20	—	0·07	0·25	0·25	—	—	0·01	—	0·01	0·22		20
21	0·02	0·08	0·03	0·25	0·03	—	0·56	—	—	0·16	—	0·23		21
22	0·23	0·11	0·09	0·11	0·08	—	0·18	—	—	0·42	0·17	0·22		22
23	0·13	—	0·01	—	0·35	—	0·35	—	—	0·30	0·17	—		23
24	0·06	0·45	0·23	—	0·01	—	0·12	—	0·27	0·25	—	0·07		24
25	0·11	0·66	—	—	—	—	0·01	0·34	0·01	0·17	—	0·04		25
26	—	0·40	0·08	—	0·41	—	—	0·03	0·09	0·01	—	0·04		26
27	—	0·50	0·01	0·16	—	—	—	—	—	0·64	—	0·03		27
28	—	0·10	0·02	—	—	0·04	—	—	—	0·15	—	—		28
29	0·02	X	—	—	—	0·03	—	—	—	0·07	0·17	0·01		29
30	0·22	X	—	—	—	0·39	—	0·04	0·01	0·21	0·70	0·02		30
31	0·29	X	—	X	—	X	—	0·16	X	0·20	X	—		31
TOTAL	4·26	7·73	2·29	4·58	2·23	2·43	2·65	3·52	2·44	2·69	2·26	3·31	Year's Total 40·39	
* Days with .01 in. or more.	23	25	23	17	16	15	17	13	21	16	9	22	217	
* Days with .04 in. or more.	16	25	13	15	11	10	12	12	11	11	7	15	158	

WATERWORKS ENGINEER
12 JAN 1938
BOLTON

40-9999.

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) .... [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations — Station No. 2874

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1[illegible]0

REGISTER OF RAINFALL IN 1938

Total looks low.

Kept at Bolton W.W., Delph

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. – in.

,, Ground ,, Sea Level 710 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

74 19|8|27

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	–	0·03	–	0·10	–	0·71	–	0·17	–	0·20	0·16	0·36		1
2	0·02	0·04	–	0·62	–	0·57	0·05	–	0·01	1·62	0·27	0·43		2
3	0·04	–	0·03	0·02	–	0·04	0·15	–	0·28	1·69	0·32	0·02		3
4	0·05	0·02	0·01	0·39	–	0·12	0·45	0·12	–	0·40	0·26	1·29		4
5	0·07	0·01	–	0·02	–	–	0·34	0·32	0·19	0·54	–	0·05		5
6	0·27	–	–	–	–	0·06	0·29	–	0·89	0·28	0·01	0·04		6
7	0·54	0·01	0·01	–	–	–	0·78	0·02	0·16	0·27	–	–		7
8	0·51	0·01	–	–	–	–	0·37	0·01	–	0·70	–	0·29		8
9	0·23	0·38	0·22	–	–	0·54	0·14	–	–	0·09	–	0·21		9
10	–	0·12	0·15	–	–	0·26	0·91	–	0·01	0·15	–	0·14		10
11	0·19	0·17	–	–	0·05	0·05	0·16	0·88	0·10	0·23	0·09	0·11		11
12	0·34	–	–	–	0·34	–	–	0·07	0·01	1·71	0·59	–		12
13	0·01	0·02	–	–	0·05	–	0·09	–	0·16	0·13	0·22	0·13		13
14	0·19	–	–	–	0·18	0·02	0·11	–	0·09	0·01	0·23	–		14
15	0·25	–	–	–	0·06	0·02	0·11	0·53	–	0·05	–	0·15		15
16	0·46	–	0·10	–	0·17	–	0·08	0·17	0·01	0·21	0·20	0·08		16
17	–	–	–	–	0·48	–	0·24	0·37	0·22	0·61	0·05	0·03		17
18	0·09	–	–	–	0·08	0·04	–	0·56	0·07	0·32	0·49	–		18
19	0·01	–	–	–	–	0·02	–	0·14	0·10	–	0·02	0·04		19
20	0·45	–	0·02	–	–	–	–	0·05	0·16	–	0·41	0·02		20
21	0·05	–	0·05	–	–	–	–	0·09	0·01	–	0·02	0·06		21
22	–	–	–	–	0·04	0·39	–	–	–	–	0·63	0·06		22
23	0·03	–	–	0·01	0·27	0·50	–	0·04	0·07	–	0·38	–		23
24	0·23	0·10	0·24	–	0·12	0·06	–	0·65	0·02	0·04	0·14	–		24
25	0·18	0·42	0·12	–	0·03	0·20	0·25	–	–	0·58	0·69	0·02		25
26	0·26	0·34	0·42	–	0·17	0·14	–	–	–	0·51	0·22	0·29		26
27	0·89	0·23	0·05	0·01	0·45	0·40	0·32	0·09	0·01	–	0·34	–		27
28	0·33	0·06	0·30	–	0·05	0·99	0·17	0·05	0·06	0·06	0·04	0·22		28
29	0·19	✕	0·20	–	1·54	0·49	0·37	–	–	0·25	0·23	0·82		29
30	0·35	✕	–	–	0·11	0·01	0·07	–	0·45	0·06	0·49	0·15		30
31	0·25	✕	0·06	✕	0·42	✕	–	–	✕	0·30	✕	1·15		31
TOTAL	✓ 6·48	✓ 1·96	✓ 1·98	✓ 1·17	✓ 4·61	✓ 5·63	✓ 5·45	✓ 4·33	✓ 3·08	✓ 11·01	✓ 6·50	✓ 6·16	Year's Total 58·36	✓ ?
* Days with .01 in. or more.	27	15	15	7	18	21	20	18	21	25	24	24	235	✓
* Days with .04 in. or more.	23	9	11	3	17	17	20	16	14	24	21	20	195	✓

Print with Query Ed 19/4

WATERWORKS ENGINEER ★ BOLTON ★ JAN 1939 REF.

† Spare column, no entries required.

*See Instruction 3 (f) on other side.

(*Signed*) John Ainsworth

[P.T.O.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations

Station No. 2874

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939

Kept at Bolton W.W., Delph

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 710 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·59	–	0·22	0·34	–	–	0·08	0·11	0·06	0·03	–	0·54		1
2	0·05	–	0·01	0·14	–	–	0·75	0·66	0·69	–	0·09	0·13		2
3	0·10	–	0·01	0·09	–	–	–	0·18	0·07	–	0·06	0·81		3
4	0·12	–	0·37	0·23	0·06	–	0·44	–	–	0·11	0·05	0·71		4
5	–	0·02	0·03	–	0·49	–	0·26	0·11	–	0·28	0·35	0·01		5
6	1·30	0·30	–	–	–	–	0·65	0·03	–	–	0·06	–		6
7	0·26	0·35	0·08	–	–	–	0·15	–	–	–	0·13	0·58		7
8	0·35	0·16	0·36	0·07	–	–	0·59	0·06	–	0·14	0·41	0·61		8
9	0·03	0·49	–	–	–	–	0·01	0·73	–	0·48	0·10	0·60		9
10	0·19	0·06	0·03	–	–	0·23	–	0·04	0·74	0·31	0·02	0·27		10
11	0·51	0·23	0·32	–	–	0·32	–	0·01	0·01	–	–	–		11
12	0·34	0·09	–	–	–	0·07	–	–	0·02	–	–	–		12
13	0·02	–	0·04	0·30	0·16	0·27	0·38	–	0·03	0·02	0·06	–		13
14	0·45	0·02	–	0·19	0·47	0·85	0·45	–	–	–	0·46	–		14
15	0·06	0·09	–	0·98	0·02	1·20	0·50	–	–	–	0·23	–		15
16	0·18	–	0·10	0·09	0·39	–	0·01	–	–	0·17	0·15	–		16
17	0·39	0·53	–	0·02	0·08	0·07	–	–	–	0·35	0·11	–		17
18	0·03	0·51	0·07	–	–	0·14	0·25	–	–	–	0·83	–		18
19	0·12	–	–	–	0·02	–	0·66	–	–	–	–	–		19
20	0·09	–	0·09	–	–	0·10	0·87	0·08	0·02	–	–	–		20
21	0·21	0·12	0·81	0·18	0·06	–	0·19	0·53	0·03	–	–	–		21
22	0·20	0·38	0·26	0·19	–	–	0·08	–	–	0·03	0·81	–		22
23	0·04	0·55	0·01	0·53	–	0·05	0·02	–	–	0·68	0·17	0·04		23
24	0·01	0·31	–	0·07	–	0·02	0·01	0·01	–	0·09	0·06	–		24
25	0·19	0·24	0·01	0·04	–	–	–	–	–	–	1·79	0·04		25
26	0·02	0·02	–	–	–	–	–	0·20	–	0·11	0·84	0·01		26
27	0·02	1·60	0·07	–	–	0·52	0·15	0·09	–	–	0·47	0·08		27
28	–	0·24	0·15	–	–	0·36	1·07	–	–	–	1·04	–		28
29	–	X	0·01	–	–	0·01	1·77	–	–	0·06	0·21	–		29
30	–	X	–	–	–	0·14	0·25	–	–	–	0·87	–		30
31	–	X	–	X	–	X	0·35	0·01	X	–	X	–		31
TOTAL	5·87	6·31	3·05	3·46	1·75	4·35	9·94	2·85	1·67	2·86	9·37	4·43	Year's Total 55·91	
* Days with .01 in. or more.	26	20	20	15	9	15	24	15	9	14	24	13	204	
* Days with .04 in. or more.	20	17	13	14	7	13	20	11	4	11	23	11	164	

WATERWORKS ENGINEER
BOLTON
REF.
10 JAN 1940

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) Robert Ainsworth

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2874

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1930.

Kept at Bolton W.W., Delph

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 710 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	—	0·01	—	0·35	—	0·01	—	—	0·02	—	0·90	0·35		1
2	—	0·02	—	0·36	—	—	0·30	—	—	—	0·61	0·34		2
3	0·01	0·14	0·01	0·45	—	—	0·61	—	—	0·04	0·05	0·37		3
4	—	0·11	0·01	0·09	—	—	0·14	—	—	0·31	0·20	0·62		4
5	—	0·01	—	—	0·10	—	0·10	—	0·02	0·81	0·05	0·76		5
6	0·12	0·29	—	—	—	—	0·03	—	—	0·49	0·07	0·28		6
7	0·12	0·33	0·01	0·38	0·03	—	0·35	0·30	0·28	0·09	0·05	0·01		7
8	0·01	0·01	0·07	0·08	—	—	0·01	0·06	0·02	0·40	0·08	0·41		8
9	—	—	0·37	—	—	—	0·76	0·31	0·66	0·91	1·80	0·62		9
10	—	—	0·08	—	—	—	0·47	0·37	0·02	0·25	0·70	0·69		10
11	—	—	0·15	0·26	—	0·01	0·18	—	—	—	1·81	0·01		11
12	—	—	0·34	—	—	0·13	0·17	0·07	0·62	—	0·46	—		12
13	—	0·03	0·14	—	—	—	—	0·11	0·75	—	0·25	0·05		13
14	—	0·06	0·05	0·44	0·16	—	0·04	0·18	0·22	—	0·13	0·64		14
15	0·02	—	0·06	0·08	0·07	0·07	—	—	0·07	—	0·13	0·10		15
16	0·10	0·25	0·20	0·23	—	—	0·18	—	1·60	0·35	0·02	0·28		16
17	—	—	0·66	—	0·05	—	1·32	—	0·32	—	0·78	0·04		17
18	0·06	0·29	0·13	0·40	—	—	0·05	0·57	0·24	—	0·03	0·58		18
19	—	0·28	0·42	0·05	—	—	0·42	—	0·35	—	0·25	0·02		19
20	—	0·02	0·08	0·30	—	—	0·31	0·56	0·33	0·30	0·19	—		20
21	—	—	0·26	0·06	—	0·35	0·06	0·05	—	0·05	0·59	—		21
22	—	0·05	0·07	—	0·17	0·08	—	0·18	0·34	—	—	—		22
23	0·01	0·31	0·02	0·17	0·03	—	0·15	—	0·16	—	0·11	—		23
24	0·72	0·04	0·01	—	0·02	—	0·04	—	0·03	0·03	—	—		24
25	0·05	—	—	—	0·03	0·05	0·12	—	—	0·01	—	—		25
26	0·65	0·30	—	—	0·01	0·21	0·22	0·01	—	—	0·09	—		26
27	*1·15	1·14	—	0·29	—	—	0·34	—	0·01	—	0·28	—		27
28	*0·60	0·38	—	—	0·14	—	—	0·27	—	—	—	0·15		28
29	—	—	0·55	—	—	0·36	0·09	—	—	0·04	0·02	1·20		29
30	0·01	×	0·01	—	—	—	—	—	—	0·57	0·02	0·42		30
31	0·04	×	0·10	×	0·06	×	—	0·15	×	1·02	×	0·02		31
TOTAL	3·67	4·07	3·80	3·99	0·87	1·27	6·46	3·19	6·06	5·67	9·67	7·96	Year's Total 56·68	
* Days with .01 in. or more.	15	20	23	16	12	9	24	14	19	16	26	22	216	
* Days with .04 in. or more.	10	14	17	16	7	7	22	13	13	14	22	18	173	

WATERWORKS ENGINEER
BOLTON
Ref

*Estimated.

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) .... [P.T.O.

2875

2875
LONGWORTH
1931 —— 40

780502

FORM 1090. **B** M S

*** The following register of mon &c., is NOT required if daily values are given on the other ... and also the space for

...egister should be sent:—
Asst. C.E.,
...ge's Sq. Bolton.

RAINFALL IN 193

At Longwor

In the County of Lancas

...in Summer 9 a.m.

Rain Gauge
Diameter of Funnel 5
Height of Top above Ground 1 *ft.*
Height of Ground above Sea Level

2½ mls. Direction from gauge E.S.E.
1⅛ mls. Direction from gauge W.

Month.	Total Depth.	Greatest Fall in 24 hours.		N D •o or	
	Inches.	Inches.	Date.		
JAN.	9·13				
FEB.	6·98	Monthly readings	taken.		
MAR.	0·75				
APRIL	4·63				
MAY	3·11				
JUNE	6·94				
JULY	6·00				
AUG.	6·54				
SEPT.	4·96				
OCT.	3·59				
NOV.	10·04				
DEC.	3·21				
Total	65·88				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

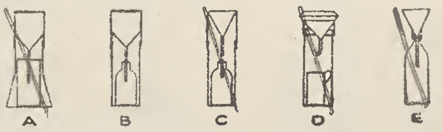
Directions from gauge ..

If gauge has been moved during the year state—

Date of move.............. Distance.............. Direction..............

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN. 1932
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

FORM 1090. **B** M
Summary.

2875

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1931

At Longworth

In the County of Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* = *in.*
Height of Ground above Sea Level 770 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	9·13	Monthly readings taken.			
FEB.	6·98				
MAR.	0·75				
APRIL	4·63				
MAY	3·11				
JUNE	6·94				
JULY	6·00				
AUG.	6·54				
SEPT.	4·96				
OCT.	3·59				
NOV.	10·04				
DEC.	3·21				
Total	65·88				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
John P. Ainsworth, B.Sc., A.M.Inst.C.E.
Waterworks Engineer, St George's St, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton Edgworth Distance 2½ mls. Direction from gauge ESE.

Nearest Parish Church at Belmont Distance 1⅛ mls. Direction from gauge W.

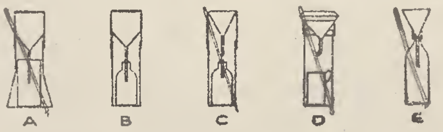
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN. 1932
REF.
BOLTON

D INSTRUCTIONS.

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

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FORM 1090.

B Monthly Summary.

C Particulars of Station.

2875.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Longworth

In the County of Lancs

Rain Gauge
Diameter of Funnel .... in.
Height of Top above Ground ...... *ft* ...... *in.*
Height of Ground above Sea Level ...... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6.45				
FEB.	.20				
MAR.	4.00				
APRIL	4.47				
MAY	5.54				
JUNE	1.18				
JULY	4.28				
AUG.	1.71				
SEPT.	8.40				
OCT.	9.07				
NOV.	4.68				
DEC.	2.80				
Total	52.78				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

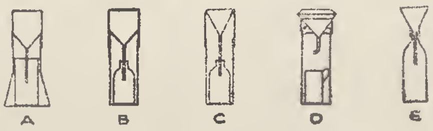
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



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In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

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(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

Copy by B.R.O.

16 JAN 1933

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(*h*) The heaviest daily fall for each month should be underlined.

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2875

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933.

At LONGWORTH

In the County of Lancashire.

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* -- *in.*

Height of Ground above Sea Level 770 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3.29				
FEB.	4.23	Readings taken monthly			
MAR.	3.80				
APRIL	2.25				
MAY	2.89				
JUNE	3.15				
JULY	3.77				
AUG.	3.55				
SEPT.	1.14				
OCT.	5.70				
NOV.	3.10				
DEC.	0.80				
Total	37.67				

Signature John P. Ainsworth.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Mr. John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, St. George's St., BOLTON.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2½ mls. Direction from gauge E.S.E.

Nearest Parish Church at Belmont Distance 1⅛ mls. Direction from gauge W.

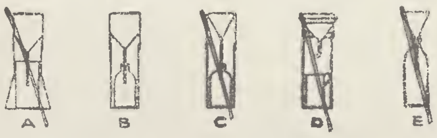
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any **record of rainfall** not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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D

2875

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934.

At Longworth

In the County of Lancashire

Rain Gauge:
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft* - *in.*
Height of Ground above Sea Level 770 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	5.00	Reading taken	monthly.		
FEB.	0.60				
MAR.	3.54				
APRIL	3.76				
MAY	5.18				
JUNE	3.09				
JULY	3.00				
AUG.	6.50				
SEPT.	5.10				
OCT.	8.16				
NOV.	2.79				
DEC.	8.17				
Total	54.89				

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, St. George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2½ mls Direction from gauge E.S.E.

Nearest Parish Church at Belmont Distance 1½ mls Direction from gauge W.

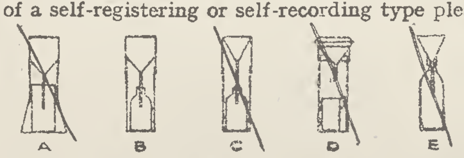
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
-9 JAN. 1935
REF. ....
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 } ·14 / 18 } would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

M.O.
JAN 1935

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2875

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W. Longworth

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* = *in.*
- *Height of Ground above Sea Level* 770 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·18				
FEB.	7·77				
MAR.	1·96				
APRIL	4·64				
MAY	1·49				
JUNE	5·14				
JULY	2·61				
AUG.	2·82				
SEPT.	9·23				
OCT.	10·64				
NOV.	5·74				
DEC.	5·06				
Total	61·28				

Signature John A. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John A. Ainsworth, B.Sc., A.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2½ mls. Direction from gauge E.S.E.

Nearest Parish Church at Belmont Distance 1⅛ mls. Direction from gauge W.

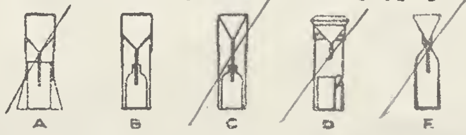
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B.**)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
17 JAN. 1936
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2875

FORM 1090. **B** Monthly Summary.

***** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1936

At Bolton W.W., Longworth

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 770 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·04 ✓				
FEB.	3·23 ✓				
MAR.	3·81 ✓				
APRIL	1·20 ✓				
MAY	1·09 ✓				
JUNE	4·44 ✓				
JULY	6·60 ✓				
AUG.	4·25 ✓				
SEPT.	6·10 ✓				
OCT.	5·86				
NOV.	8·37 ✓				
DEC.	6·12				
Total	56·11 ✓				

Signature John Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John S. Ainsworth, B.Sc., A.M.Inst.C.E., Waterworks Engr., St George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2½ mls. Direction from gauge E.S.E.

Nearest Parish Church at Belmont Distance 1⅛ mls. Direction from gauge W.

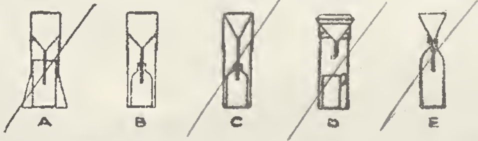
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B.**)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN. 1937
REF. ....
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

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(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2875

TRAVELLING FORM.

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937

At Bolton W.W., Longworth.

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 770 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·34				
FEB.	7·47				
MAR.	2·58				
APRIL	5·30				
MAY	2·34				
JUNE	2·13				
JULY	2·68				
AUG.	3·65				
SEPT.	2·09				
OCT.	2·62				
NOV.	2·13				
DEC.	3·30				
TOTAL	40·63				

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2½ mls Direction from gauge E.S.E.

Nearest Parish Church at Belmont Distance 18 mls Direction from gauge W.

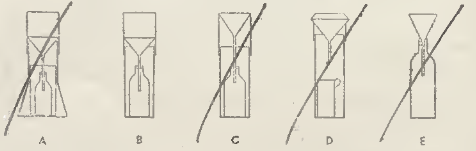
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\begin{matrix}17\\18\end{matrix}\left.\begin{matrix}\\\\\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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Wt.3430/1699 15,000 2/35 W. H. & S. 668/91.

2875

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W., Longworth

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 770 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·40				
FEB.	2·16				
MAR.	2·24				
APRIL	0·84				
MAY	5·32				
JUNE	6·05				
JULY	6·21				
AUG.	4·59				
SEPT.	3·34				
OCT.	12·20				
NOV.	7·72				
DEC.	6·16				
TOTAL	63·23				

Signature John P. Ainsworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Mr John P. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 am. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2½ mls Direction from gauge E.S.E.

Nearest Parish Church at Belmont Distance 1⅛ mls Direction from gauge W.

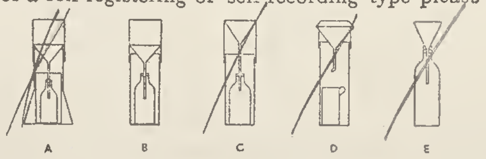
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move ...... Distance ...... Direction ......

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM.
...ES FORWARDED MONTHLY

WATERWORKS ENGINEER
12 JAN 1939
REF.......
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
- (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
- (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005 ; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt.1046/3030. 26,000. 4/36. W. H. & S. 668/91. S.O. Code No. 40-9999

FORM 1090.

2875

B Monthly Summary.

. The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939.

At Bolton W.W., Longworth

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 770 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·48 ✓				
FEB.	5·93 ✓				
MAR.	2·65 ✓				
APRIL	3·17 ✓				
MAY	1·87 ✓				
JUNE	4·74				
JULY	9·45 ✓				
AUG.	2·75 ✓				
SEPT.	1·67 ✓				
OCT.	2·87 ✓				
NOV.	8·59 ✓				
DEC.	4·31 ✓				
TOTAL	54·48				

Signature John P. Ainsworth

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

*See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2½ miles Direction from gauge E.S.E.

Nearest Parish Church at Belmont Distance 1⅛ miles Direction from gauge W.

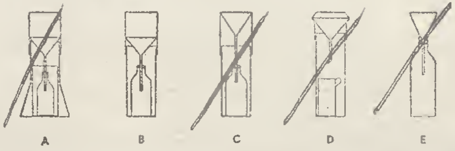
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move.................. Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
   (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
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(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

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2875

FORM 1090.

B Monthly Summary.

. The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1940.

At Bolton W.W., Longworth

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 770 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*3·60				
FEB.	3·65				
MAR.	3·71				
APRIL	3·60				
MAY	0·81				
JUNE	1·08				
JULY	6·91				
AUG.	3·14				
SEPT.	5·64				
OCT.	5·40				
NOV.	9·11				
DEC.	7·40				
TOTAL	54·05				

*Estimated.

Signature John P. Ainsworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth, Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Turton & Edgworth Distance 2½ mls. Direction from gauge E.S.E.

Nearest Parish Church at Belmont Distance 1¼ mls. Direction from gauge W.

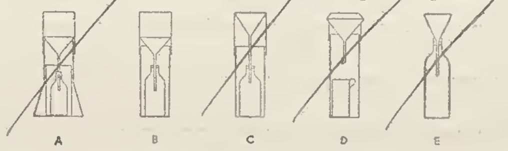
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN 1941
Ref.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

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(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{c}17\\18\end{array}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

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2877

FORM 1090. **B** Mo
Sun

2877

BOLTON, WAYOH W.W.

1931 — 40

780502

, The following register of monthl
&c., is NOT required if daily or
values are given on the other sic

ıd also the space for

ster should be sent:—

RAINFALL IN 1931

At Bolton W.W., Wayoh

In the County of S. Lancashi

Rain Gauge
- Diameter of Funnel 5
- *Height of Top above Ground* 1 *ft.*
- *Height of Ground above Sea Level* 6

in Summer

Direction from gauge

Direction from gauge

Month.	Total Depth.	Greatest Fall in 24 hours.		Num Day ·01 in or mo	
	Inches.	Inches.	Date.	*	
JAN.	8·83				
FEB.	7·20				
MAR.	·54				
APRIL	4·10				
MAY	3·00				
JUNE	6·52				
JULY	5·92				
AUG.	6·09				
SEPT.	4·96				
OCT.	3·44				
NOV.	10·15				
DEC.	3·35				
Total	64·10				

Directions from gauge ..

Signature Bolton Corporation W.W.
per J. P. Ainsworth

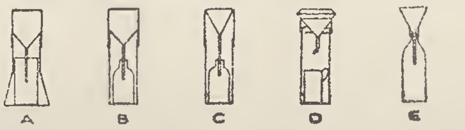
*See Instruction 2 (*f*) below.

If gauge has been moved during the year state—

Date of move.................. Distance.................. Direction..................

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

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(c) When was the measurement made?

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2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

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(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

2877

FORM 1090. **B** Mo
Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1931

At Bolton W.W. Wayoh No 3

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 608 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	8·83				
FEB.	7·20				
MAR.	·54				
APRIL	4·10				
MAY	3·00				
JUNE	6·52				
JULY	5·92				
AUG.	6·09				
SEPT.	4·96				
OCT.	3·44				
NOV.	10·15				
DEC.	3·35				
Total	64·10				

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

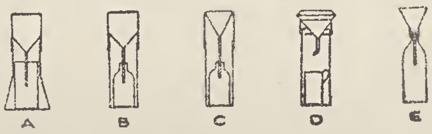
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every* morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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Form 1090. **B** Monthly Summary. **C** Particulars of Station. 2877

⁎ **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1932

At Wayoh

In the County of Lancs

Rain Gauge { Diameter of Funnel .... in.

Height of Top above Ground .... *ft.* .... *in.*

Height of Ground above Sea Level .... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	7·03				
FEB.	·15				
MAR.	4·02				
APRIL	4·96				
MAY	5·39				
JUNE	1·09				
JULY	4·23				
AUG.	1·57				
SEPT.	6·94				
OCT.	9·96				
NOV.	4·63				
DEC.	3·04				
Total	53.01				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:— ....

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copies from printed list

Copy by B.R.O.
16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2877

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933

At Bolton W.W. Wayoh

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 608 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·49				
FEB.	4·85				
MAR.	3·37				
APRIL	2·23				
MAY	2·05				
JUNE	3·08				
JULY	4·23				
AUG.	2·69				
SEPT.	1·05				
OCT.	5·82				
NOV.	2·79				
DEC.	·81				
Total	36·46				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter ...... in Summer ......

Nearest Railway Station ...... Distance ...... Direction from gauge ......

Nearest Parish Church at ...... Distance ...... Direction from gauge ......

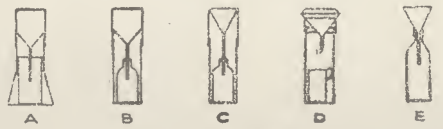
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move ...... Distance ...... Direction ......

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any **record of rainfall** not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "**tr**" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17/18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

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2877

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1934

At Wayoh

In the County of S. Lancs

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 608 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	5·04				
FEB.	0·48				
MAR.	3·76				
APRIL	3·11				
MAY	5·09				
JUNE	3·16				
JULY	2·45				
AUG.	5·56				
SEPT.	4·41				
OCT.	8·04				
NOV.	2·37				
DEC.	8·28				
Total	51·78				

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

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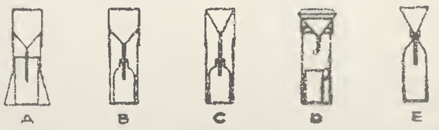

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In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

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(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet

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(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{c}17\\18\end{array}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

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(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

No. 7
JAN 1935

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(506) Wt.24107/1845 15000 3/33. Gp. 119/110.

S
Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

Station No. 2877

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Bolton W.W., Wayoh Res.
in the County of S. Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. = in.
,, Ground ,, Sea Level 608 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	1·00	0·69	0·01	0·04	—	0·04	0·17	—	0·32	1·12	0·18	0·31		1
2	0·03	0·27	0·03	—	—	0·31	0·01	—	0·08	0·18	0·04	0·24		2
3	0·15	1·28	0·12	0·15	—	0·04	0·33	—	0·25	0·04	0·12	0·36		3
4	—	0·03	0·10	—	—	0·56	0·05	—	0·42	0·26	—	0·02		4
5	—	0·73	0·14	0·40	—	0·28	0·06	—	0·31	—	0·22	0·28		5
6	—	—	—	0·08	—	0·28	—	—	—	—	—	0·01		6
7	0·01	—	—	0·20	—	0·39	—	—	—	0·28	0·22	0·37		7
8	—	—	—	0·13	—	—	—	—	—	0·33	0·06	0·76		8
9	0·02	—	—	0·39	—	0·02	—	—	—	1·96	0·33	—		9
10	—	0·13	—	0·27	—	0·01	—	—	—	0·35	0·27	—		10
11	0·59	0·20	—	—	—	0·39	—	0·02	—	0·51	0·08	—		11
12	0·01	0·35	—	—	—	0·48	—	—	0·11	0·01	—	—		12
13	0·19	0·12	—	0·11	0·38	—	—	—	0·13	0·11	0·05	—		13
14	0·01	—	—	0·08	0·02	0·14	—	—	0·11	0·01	1·03	0·46		14
15	—	1·86	—	0·50	0·09	—	—	—	0·32	0·27	0·08	0·40		15
16	—	0·55	0·10	0·48	0·18	0·28	0·11	—	0·83	—	0·22	—		16
17	—	0·01	—	0·41	0·67	0·21	0·28	0·05	0·62	0·10	0·48	—		17
18	—	0·06	—	0·07	0·12	0·06	0·44	—	0·80	0·46	0·16	—		18
19	—	0·11	—	0·11	0·03	0·48	0·36	—	0·01	0·15	0·30	—		19
20	—	0·84	—	0·67	—	0·26	0·03	—	—	—	—	—		20
21	—	0·12	0·04	—	—	—	—	—	1·27	0·30	0·01	0·21		21
22	0·01	0·21	0·13	0·18	—	—	—	—	0·01	—	—	0·02		22
23	0·05	—	1·10	0·07	—	—	—	0·32	0·02	0·47	—	—		23
24	0·76	0·57	0·07	0·01	—	—	—	—	1·67	0·10	0·01	0·15		24
25	0·19	0·04	0·18	—	—	0·37	—	—	—	—	0·03	0·04		25
26	—	—	—	—	—	—	0·09	1·25	0·61	0·69	0·25	0·18		26
27	—	0·11	—	—	0·06	0·09	0·63	—	0·19	2·15	0·64	0·08		27
28	0·05	0·22	—	—	0·03	—	—	0·02	0·13	0·93	0·14	0·01		28
29	0·01	X	0·05	—	—	0·02	—	0·06	0·26	0·32	0·08	0·23		29
30	0·15	X	—	—	—	0·28	—	0·35	0·34	0·97	0·88	0·13		30
31	0·08	X	0·02	X	—	X	—	—	X	0·15	X	0·63		31
TOTAL	3·31	8·50	2·09	4·35	1·58	4·99	2·56	2·07	8·81	12·22	5·88	4·89	Year's Total. 61·25	
* Days with .01 in. or more.	17	21	13	19	9	21	12	7	22	25	24	20	270	
* Days with .04 in. or more.	10	19	10	18	6	18	10	5	19	23	21	16	175	

WATERWORKS ENGINEER * BOLTON *
17 JAN 1936
REF.

40-9999
* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(Signed)

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2877

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

Form 1030.

REGISTER OF RAINFALL IN 1936.

Kept at Bolton W.W. Wayoh No. 3.

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 608 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·03	0·22	0·06	0·20	—	0·02	0·01	0·50	0·06	—	0·27	0·38		1
2	0·04	0·12	—	0·04	—	0·23	—	0·18	0·03	—	0·08	0·38		2
3	—	—	—	—	—	0·67	0·03	0·21	1·30	—	—	0·11		3
4	0·39	0·22	0·41	—	—	0·04	0·01	0·11	0·23	—	0·27	0·42		4
5	0·12	0·06	0·71	—	—	—	—	0·43	0·67	—	—	0·57		5
6	0·18	—	0·03	—	—	0·04	0·16	0·72	0·76	—	0·22	—		6
7	—	—	0·17	—	—	—	0·08	—	1·62	—	0·41	0·34		7
8	0·39	—	0·30	—	—	—	—	—	0·02	—	0·48	0·28		8
9	0·36	—	0·11	—	—	0·03	0·05	—	0·16	0·01	1·39	0·01		9
10	0·13	—	—	—	—	—	0·14	—	0·01	—	1·69	—		10
11	—	—	0·01	0·01	—	0·11	0·69	0·03	0·08	—	0·65	0·01		11
12	—	—	—	0·07	0·04	0·64	0·75	0·02	0·59	0·09	0·13	0·01		12
13	0·01	—	—	0·03	0·03	—	0·09	—	—	0·34	—	0·90		13
14	—	—	—	0·05	—	0·51	0·03	0·21	0·10	0·42	0·27	1·29		14
15	0·22	—	—	0·13	0·09	0·21	0·19	0·25	0·04	—	0·65	0·07		15
16	0·04	0·12	—	0·02	0·01	0·04	0·05	—	—	0·05	0·79	—		16
17	0·20	0·55	—	0·02	—	—	0·09	0·16	—	0·89	0·09	0·21		17
18	—	0·04	—	0·03	—	0·03	0·39	0·15	—	1·02	—	0·02		18
19	0·30	0·42	0·02	0·02	—	0·08	0·34	0·71	—	0·23	—	—		19
20	0·32	0·09	0·09	—	—	0·03	0·06	—	—	0·03	—	—		20
21	0·20	0·01	—	0·07	—	0·01	—	—	—	0·14	—	0·04		21
22	0·31	0·34	0·08	—	—	1·28	0·16	—	—	0·02	0·01	0·04		22
23	—	0·02	0·16	0·30	0·02	—	1·04	—	—	0·07	0·01	0·01		23
24	0·29	0·01	—	0·10	0·24	—	0·01	—	0·15	0·96	0·01	0·07		24
25	0·35	—	—	0·06	—	—	0·07	—	0·42	0·40	—	0·02		25
26	0·05	0·40	0·02	0·03	—	—	0·01	—	0·14	0·92	—	—		26
27	0·87	0·06	0·08	0·01	—	—	—	—	0·08	0·63	—	—		27
28	0·39	0·35	0·11	—	—	0·02	0·10	—	—	—	—	0·15		28
29	0·12	0·27	1·45	—	0·08	0·48	0·03	—	—	0·23	0·38	0·03		29
30	0·38	X	0·03	—	0·85	0·09	0·52	0·01	—	0·47	0·18	0·12		30
31	0·03	X	—	X	0·01	X	0·21	0·04	X	—	X	0·83		31
TOTAL	5·72	3·30	3·84	1·19	1·37	4·56	5·31	3·73	6·46	6·92	7·98	6·31	Year's Total. 56·69	
* Days with .01 in. or more.	24	17	17	17	9	19	26	15	18	18	19	24	223	
* Days with .04 in. or more.	21	14	12	9	5	13	19	12	15	15	16	17	168	

WATERWORKS ENGINEER BOLTON REF. 12 JAN 1937

40-9999

† Spare column, no entries required.

(Signed) John Ainsworth

* See Instruction 2 (f) on other side.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2877

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

Kept at Bolton W.W., Wayoh ~~No 3~~

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. – in.

,, Ground ,, Sea Level 610 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	0·02	0·05	0·09	–	–	0·02	0·11	–	0·37	0·04	–	0·22		1
2	0·35	0·39	0·23	0·22	–	–	–	–	0·03	0·01	–	–		2
3	–	0·22	0·04	0·05	0·11	0·84	0·19	–	0·01	–	–	0·02		3
4	0·43	0·04	0·01	0·13	0·18	–	0·03	–	0·02	–	–	0·68		4
5	1·79	–	0·03	0·01	0·01	0·04	0·03	–	0·03	–	–	0·04		5
6	0·03	–	–	0·21	0·13	–	–	0·19	0·08	–	–	0·03		6
7	0·02	0·21	–	0·45	0·14	0·16	–	–	0·14	–	–	–		7
8	0·01	0·68	0·01	0·07	–	0·15	0·07	–	–	–	0·03	0·01		8
9	0·02	0·26	0·01	0·14	0·19	–	0·79	0·27	–	–	–	–		9
10	0·01	0·16	–	–	–	0·01	0·02	–	–	–	–	0·43		10
11	–	0·04	0·06	–	0·11	–	0·02	–	–	–	–	–		11
12	0·09	0·54	0·32	–	0·01	0·18	0·05	0·17	0·39	–	–	0·47		12
13	–	0·31	0·03	–	–	0·15	–	0·67	0·04	0·01	–	0·30		13
14	0·01	0·09	0·20	–	–	0·01	–	0·50	0·22	0·01	0·05	0·43		14
15	0·25	0·67	–	0·46	–	–	0·31	–	0·30	–	–	0·08		15
16	0·17	0·78	0·23	0·89	–	–	–	0·28	0·06	–	–	–		16
17	0·12	0·05	0·26	0·46	–	0·06	–	0·06	0·07	–	–	–		17
18	0·18	0·50	0·10	0·59	0·08	–	–	0·39	0·04	–	0·37	–		18
19	0·16	0·41	0·09	0·49	–	0·03	0·02	0·06	–	–	0·54	–		19
20	0·03	0·16	–	0·14	0·30	0·12	–	–	–	–	0·03	0·25		20
21	0·01	0·07	0·03	0·25	0·03	–	0·59	–	–	0·13	–	0·16		21
22	0·18	0·03	0·06	0·10	0·08	–	0·18	–	–	0·39	0·23	0·21		22
23	0·14	–	0·01	–	0·36	–	0·27	–	–	0·36	0·18	0·01		23
24	0·13	0·40	0·26	–	0·01	–	0·07	–	0·19	0·30	0·01	0·15		24
25	0·10	0·77	–	–	–	–	–	0·28	0·01	0·11	–	0·06		25
26	–	0·42	0·04	–	0·43	–	–	0·02	0·08	–	–	0·03		26
27	–	0·42	0·04	0·15	–	–	–	–	–	0·59	–	0·02		27
28	–	0·05	–	–	–	0·09	–	–	–	0·15	–	–		28
29	–	×	–	–	–	0·03	–	–	–	0·04	0·15	–		29
30	0·12	×	–	–	–	0·47	–	0·02	0·01	0·17	0·61	–		30
31	0·35	×	–	×	–	×	–	0·15	×	0·23	×	–		31
TOTAL	4·72	7·72	2·15	4·81	2·17	2·36	2·75	3·06	2·09	2·54	2·20	3·60	Year's Total 40·17	
* Days with .01 in. or more.	24	25	21	17	15	15	15	13	18	14	10	19	206	
* Days with .04 in. or more.	15	24	14	16	11	10	10	11	12	11	7	13	154	

WATERWORKS ENGINEER BOLTON
12 JAN 1938

40-9999.

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) John [illegible]

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations
Station No. 2877

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM [illegible]30

REGISTER OF RAINFALL IN 1938

Kept at Bolton W.W., Wayoh No 3
in the County of S. Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. – in.
,, Ground ,, Sea Level 610 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	–	0·02	–	0·02	–	0·85	–	0·19	–	0·21	0·19	0·36		1
2	0·01	0·06	–	0·64	0·02	0·54	0·05	–	–	2·15	0·41	0·41		2
3	0·01	–	0·02	0·04	–	0·03	0·12	–	0·26	1·82	0·36	0·04		3
4	0·03	0·02	–	0·26	–	0·12	0·38	0·13	–	0·40	0·24	1·14		4
5	0·07	0·02	–	0·04	–	0·02	0·40	0·15	0·16	0·65	0·01	0·04		5
6	0·25	–	–	–	–	0·08	0·30	–	0·77	0·51	0·01	0·03		6
7	0·48	–	0·01	–	–	–	0·71	0·01	0·17	0·29	–	–		7
8	0·56	0·01	–	–	–	–	0·52	0·01	–	1·26	–	0·36		8
9	0·17	0·82	0·43	–	–	0·34	0·17	–	–	0·15	–	0·20		9
10	–	0·08	0·12	–	–	0·29	0·84	–	–	0·15	–	0·16		10
11	0·78	0·18	–	–	0·07	0·03	0·15	0·10	0·05	0·34	0·14	0·10		11
12	0·34	–	–	–	0·36	–	–	0·05	–	1·84	0·77	0·01		12
13	0·01	0·01	–	–	0·06	–	0·06	–	0·13	0·18	0·18	0·33		13
14	0·29	–	–	–	0·22	0·02	0·11	–	0·06	0·01	0·22	0·01		14
15	0·37	–	–	–	0·02	0·01	0·09	0·47	–	0·06	–	0·26		15
16	0·53	–	0·10	–	0·25	–	0·16	0·29	0·01	0·22	0·28	0·08		16
17	–	–	–	–	0·70	–	0·20	0·36	0·27	0·61	0·05	0·06		17
18	0·11	–	–	–	0·07	0·05	–	0·66	0·09	0·63	0·53	–		18
19	0·01	–	–	–	–	0·02	–	0·19	0·10	–	0·01	0·01		19
20	0·48	–	0·04	–	–	–	–	0·07	0·17	–	0·42	0·01		20
21	0·04	–	0·05	–	–	–	–	0·09	–	–	0·05	–		21
22	–	–	–	–	0·03	0·36	–	–	–	–	0·66	0·03		22
23	0·02	–	–	–	0·29	0·47	–	0·03	0·08	–	0·68	–		23
24	0·38	0·10	0·24	–	0·11	0·06	0·06	0·50	0·02	0·03	0·16	–		24
25	0·25	0·57	0·16	–	0·03	0·17	0·21	–	–	0·58	0·67	0·11	27	25
26	0·41	0·49	0·40	–	0·19	0·33	–	–	0·01	0·48	0·23	0·11		26
27	0·78	0·17	–	–	0·49	0·47	0·32	0·14	0·01	–	0·67	–		27
28	0·38	0·09	0·24	–	0·05	1·18	0·18	0·05	0·07	0·02	0·02	0·16		28
29	0·20	X	0·23	–	1·42	0·40	0·42	–	–	0·28	0·23	0·73		29
30	0·44	✕	–	–	0·17	0·01	0·06	–	0·50	0·01	0·63	0·09		30
31	0·29	✕	0·03	✕	0·45	✕	–	–	✕	0·73	✕	1·10		31
TOTAL	7·09	2·64	2·07	1·00	5·00	5·85	5·51	3·49	2·93	13·51	7·82	5·94	Year's Total 62·85	
* Days with .01 in. or more.	27	14	13	5	19	22	21	18	18	25	25	25	232	
* Days with .04 in. or more.	21	9	10	4	15	15	21	15	14	21	21	19	185	

ERWORKS ENGINE
12 JAN 193
REF.
BOLTON

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) .... [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2877

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939.

Kept at Bolton W.W., Wayoh No 3

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 610 ft.

TRAVELLING FORM.

VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·47	—	0·27	0·30	—	—	0·02	0·04	0·01	0·05	—	0·48		1
2	0·04	—	—	0·10	—	—	0·82	0·58	0·68	—	0·05	0·09		2
3	0·07	—	—	0·08	—	—	—	0·15	0·07	—	0·08	0·68		3
4	0·05	—	0·36	0·63	0·02	—	0·42	—	—	0·12	0·01	0·73		4
5	—	0·01	—	—	0·44	—	0·34	0·17	—	0·40	0·35	0·01		5
6	1·15	0·27	—	—	—	—	0·65	0·03	—	0·01	0·07	—		6
7	0·23	0·35	0·11	—	—	—	0·15	0·01	—	—	0·15	0·48		7
8	0·37	0·16	0·38	0·05	—	—	0·61	0·06	—	0·12	0·39	0·51		8
9	0·13	0·54	—	—	—	—	0·05	0·54	—	0·50	0·07	0·62		9
10	0·12	0·04	0·04	—	—	0·21	—	0·04	0·67	0·29	0·01	0·19		10
11	0·43	0·22	0·29	—	—	0·30	—	0·01	0·02	—	—	—		11
12	0·36	0·11	—	—	—	0·02	—	—	0·01	—	0·01	—		12
13	0·02	—	0·01	0·28	0·11	0·26	0·21	—	0·02	0·01	0·04	—		13
14	0·90	—	—	0·12	0·91	0·72	0·45	—	—	—	0·40	—		14
15	0·18	0·09	0·01	0·95	0·01	1·12	0·33	—	—	—	0·23	—		15
16	0·16	—	0·05	0·08	0·39	—	0·03	—	—	0·08	0·12	—		16
17	0·73	0·45	—	0·02	0·16	0·04	—	—	—	0·20	0·11	—		17
18	0·06	0·40	0·03	—	—	0·16	0·47	—	—	—	0·73	—		18
19	0·25	—	—	—	—	0·01	0·43	—	—	—	0·01	—		19
20	0·09	—	0·03	—	0·03	0·05	0·74	0·20	—	0·01	—	—		20
21	0·13	0·13	0·71	0·18	0·04	—	0·42	0·70	0·02	—	—	—		21
22	0·19	0·37	0·24	0·06	—	—	0·07	—	—	0·03	0·94	—		22
23	0·01	0·55	0·04	0·38	—	0·04	0·02	—	—	0·63	0·16	0·04		23
24	0·01	0·22	—	0·05	—	0·01	0·03	—	—	0·02	0·02	—		24
25	0·08	0·23	—	0·01	—	0·01	—	—	—	—	1·79	0·01		25
26	0·01	0·01	—	—	—	—	—	0·63	—	0·15	0·82	0·01		26
27	0·01	1·61	0·09	—	—	0·53	0·14	0·04	—	0·01	0·50	0·08		27
28	—	0·19	0·12	—	—	0·43	0·99	—	—	—	1·03	—		28
29	—	✕	0·01	—	—	0·02	1·68	—	—	0·05	0·22	—		29
30	—	✕	—	—	—	0·14	0·24	—	—	—	0·75	—		30
31	—	✕	—	✕	—	✕	0·21	0·03	✕	—	✕	—		31
TOTAL	6·25	5·95	2·79	3·29	2·11	4·07	9·52	3·23	1·50	2·68	9·06	3·93	Year's Total 54·38	
* Days with .01 in. or more.	26	19	17	15	9	17	24	15	8	17	26	13	206	
* Days with .04 in. or more.	21	17	12	13	6	12	20	11	3	11	21	10	157	

WATERWORKS ENGINEER
BOLTON
REF.
1[illegible] JAN 40

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) ....

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2877

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1940.

Kept at Bolton W.W., Wayoh

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 610 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	—	0·01	—	0·31	—	—	0·02	—	0·01	—	0·95	0·35		1
2	—	—	—	0·31	—	—	0·21	—	—	—	0·66	0·34		2
3	0·01	0·11	—	0·36	—	—	0·37	—	—	0·04	0·05	0·29		3
4	—	0·09	—	0·12	—	—	0·13	—	—	0·39	0·20	0·60		4
5	—	—	—	—	0·08	—	0·07	—	0·01	0·89	0·03	0·64		5
6	0·10	0·25	—	—	—	—	0·04	—	—	0·41	0·04	0·18		6
7	0·12	0·26	0·01	0·35	0·06	—	0·31	0·25	0·18	0·06	0·02	0·01		7
8	0·01	—	0·04	0·06	—	—	0·01	0·07	—	0·38	0·08	0·39		8
9	—	—	0·21	0·01	—	—	1·00	0·24	0·58	0·96	1·68	0·45		9
10	—	—	0·06	—	—	—	0·46	0·44	—	0·19	0·67	0·70		10
11	—	—	0·14	0·15	—	0·02	0·14	—	0·01	—	1·97	—		11
12	—	—	0·34	—	—	0·08	0·14	0·08	0·61	—	0·54	—		12
13	—	0·03	0·11	—	—	—	—	0·07	0·79	—	0·25	0·04		13
14	—	0·13	0·05	0·52	0·15	—	0·01	0·15	0·43	—	0·16	0·60		14
15	0·01	—	0·06	0·04	0·07	0·08	—	—	0·08	—	0·12	0·09		15
16	0·01	0·02	0·15	0·15	—	—	0·18	—	1·63	0·27	0·03	0·22		16
17	—	—	0·58	—	0·13	—	0·94	—	0·29	—	0·69	0·04		17
18	0·05	0·14	0·14	0·46	—	—	0·02	0·38	0·24	—	—	0·46		18
19	—	0·25	0·49	0·02	—	—	0·21	—	0·35	0·01	0·31	0·01		19
20	—	0·02	0·10	0·29	—	—	0·13	0·57	0·24	0·23	0·19	—		20
21	—	—	0·24	0·03	—	0·29	0·07	0·03	—	0·03	0·73	—		21
22	—	0·04	0·06	—	0·12	0·09	—	0·10	0·24	—	—	—		22
23	—	0·22	0·04	0·17	0·01	—	0·14	—	0·12	—	0·13	—		23
24	0·63	0·01	0·01	—	0·02	—	0·09	0·01	0·03	0·05	—	0·03		24
25	0·03	—	—	—	0·01	0·04	0·11	—	—	0·02	—	—		25
26	0·59	0·27	—	0·03	0·05	0·17	0·02	—	—	—	0·08	—		26
27	*1·10	0·88	—	0·06	0·01	—	0·41	—	0·01	—	0·17	0·01		27
28	*0·55	0·30	—	—	0·20	—	—	0·25	—	—	—	0·15		28
29	—	—	0·46	—	—	0·32	0·04	—	—	0·03	0·01	1·21		29
30	—	✕	—	0·04	—	—	—	—	—	0·60	0·03	0·41		30
31	0·04	✕	0·10	✕	0·04	✕	—	0·09	✕	1·01	✕	—		31
													Year's Total	
TOTAL	3·25	3·03	3·39	3·48	0·95	1·09	5·27	2·73	5·85	5·57	9·79	7·22	51·62	
* Days with .01 in. or more.	13	17	20	19	13	8	25	14	18	17	25	22	211	
* Days with .04 in. or more.	8	12	18	15	9	7	20	12	13	13	20	18	165	

WATERWORKS ENGINEER
BOLTON
Ref. ......
1941

*Estimated.

* See Instruction 3 (f) on other side.

† Spare column, no entries required

(*Signed*) Robert Duckworth

[P.T.O.

2878

FORM 1090. **B** M S

*** **The following register of mon &c., is NOT required if daily values are given on the other**

—

2878

BOLTON, HOLDENS FARM

1931 —— 40

780502

and also the space for

egister should be sent:—

....

....

......in Summer.............

Direction from gauge ....

Direction from gauge ....

RAINFALL IN 193

*

At Bolton W.W. Holden

In the County of S. Lancas

Rain Gauge
- Diameter of Funnel 5
- *Height of Top above Ground* 1 *ft*
- *Height of Ground above Sea Level*

Month.	Total Depth.	Greatest Fall in 24 hours.			
	Inches.	Inches.	Date.		
JAN.	8·30				
FEB.	6·90				
MAR.	·70				
APRIL	4·55				
MAY	3·02				
JUNE	7·06				
JULY	6·06				
AUG.	6·55				
SEPT.	5·08				
OCT.	3·40				
NOV.	10·07				
DEC.	3·24				
Total	64·93				

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

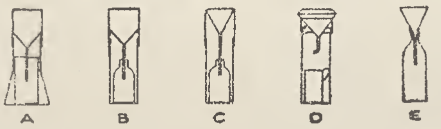
Directions from gauge ..

If gauge has been moved during the year state—

Date of move............. Distance............. Direction.............

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

* Gauge over exposed prior to Jan. 1929. from which date there has been erected round the gauge a standard turf wall 10 ft. dia. the top of which is level & 6 ins. above the lip of gauge.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

2878

FORM 1090.

B

M
Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1931

*

At Bolton W.W. Holden's Farm

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 955 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	8·30				
FEB.	6·90				
MAR.	·70				
APRIL	4·55				
MAY	3·02				
JUNE	7·06				
JULY	6·06				
AUG.	6·55				
SEPT.	5·08				
OCT.	3·40				
NOV.	10·07				
DEC.	3·24				
Total	64·93				

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

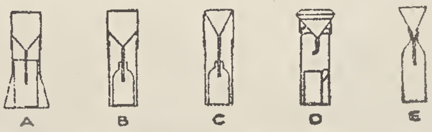
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

* Gauge over exposed prior to Jan. 1929. from which date there has been erected round the gauge a standard turf wall 10 ft. dia. the top of which is level & 6 ins. above the lip of gauge.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

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(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace"*
The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2878

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Holdens Farm

In the County of Lancs

Rain Gauge

Diameter of Funnel .... in.

Height of Top above Ground .... *ft.* .... *in.*

Height of Ground above Sea Level .... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6·40				
FEB.	·19				
MAR.	4·04				
APRIL	4·59				
MAY	5·60				
JUNE	1·22				
JULY	5·03				
AUG.	1·74				
SEPT.	8·24				
OCT.	10·25				
NOV.	4·72				
DEC.	2·73				
Total	54·75				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

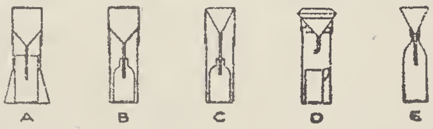
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copies from printed list.

Copy by B.R.O.
16 JAN. 1933

D INSTRUCTIONS.

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(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

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(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

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FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1933.

At Bolton W.W., Holden's Farm

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 955 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·50				
FEB.	4·57				
MAR.	3·85				
APRIL	2·55				
MAY	3·11				
JUNE	3·12				
JULY	3·70				
AUG.	3·61				
SEPT.	1·17				
OCT.	5·62				
NOV.	3·06				
DEC.	·83				
Total	38·69				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to **fill** in this section and also the space for notes as far as possible:—

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Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

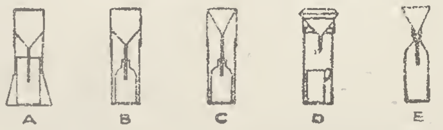
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list.
Turf wall round gauge.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2848

FORM 1090.

B Monthly Summary.

***** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1934

At Holden's Farm

In the County of S. Lancs.

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 955 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	5·04				
FEB.	0·62				
MAR.	3·62				
APRIL	3·44				
MAY	5·43				
JUNE	3·11				
JULY	4·35				
AUG.	6·68				
SEPT.	5·24				
OCT.	8·46				
NOV.	2·49				
DEC.	8·10				
Total	57·21				

✓

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

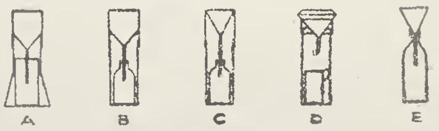
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{l}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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25 JAN 1935

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2878

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W., Holden's Farm

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* = *in.*
- *Height of Ground above Sea Level* 955 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
✓ JAN.	4·04				
FEB.	7·61				
MAR.	1·84				
/ APRIL	4·35				
/ MAY	1·69				
/ JUNE	4·90				
JULY	2·32				
/ AUG.	2·57				
SEPT.	8·35				
/ OCT.	10·12				
/ NOV.	5·62				
DEC.	5·10				
Total	58·51				

Signature John L. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr John L. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls. Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 1¼ mls. Direction from gauge S.W.

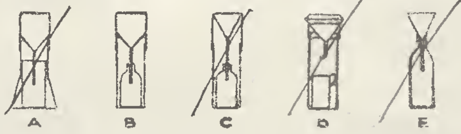
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
17 JAN. 1936
REF. ....
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{c}17\\18\end{array}\right\}\ \cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2878

FORM 1090. **B** Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W., Holdens Farm

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 955 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·64				
FEB.	3·70				
MAR.	3·63				
APRIL	1·28				
MAY	1·15				
JUNE	4·63				
JULY	6·65				
AUG.	3·90				
SEPT.	5·48				
OCT.	6·07				
NOV.	7·83				
DEC.	5·50				
Total	55·46				

Signature John Ainsworth

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John F. Ainsworth, B.Sc., M.Inst.C.E., Waterworks Engr., St George's St, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls. Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 1¼ mls. Direction from gauge S.W.

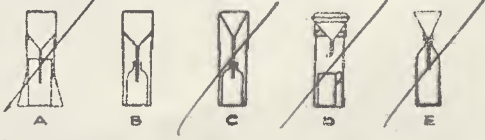
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2878

FORM 1090. **B** Monthly Summary.

C Particulars of Station,

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937.

At Bolton W.W., Holden's Farm

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 955 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·30				
FEB.	7·69				
MAR.	2·60				
APRIL	5·10				
MAY	2·44				
JUNE	2·21				
JULY	2·60				
AUG.	3·66				
SEPT.	2·26				
OCT.	2·63				
NOV.	2·10				
DEC.	3·49				
TOTAL	41·08				

Signature ...

*See Instruction 2 *(f)* below.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 1¼ mls Direction from gauge S.W.

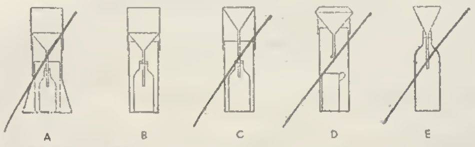
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

- (a) It is known that the gauge was empty at the beginning of the measured rainfall?
- (b) What note was made of the times of beginning and end of this fall?
- (c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

D INSTRUCTIONS.

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(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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Wt.3430/1699 15,000 2/35 W. H. & S. 668/91.

2878

FORM 1090.

B Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W., Holden's Farm

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 955 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·24				
FEB.	2·00				
MAR.	2·28				
APRIL	0·96				
MAY	5·38				
JUNE	5·85				
JULY	6·15				
AUG.	3·87				
SEPT.	3·47				
OCT.	12·08				
NOV.	7·30				
DEC.	5·92				
TOTAL	61·50				

Signature John P Ainsworth

* See Instruction 3 (*f*) below.

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Mr John P. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 1¼ mls Direction from gauge S.W.

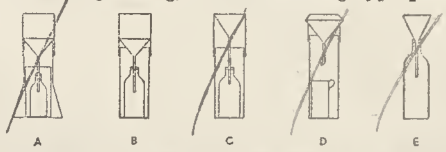
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move............ Distance............ Direction............

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt.1046/3030. 26,000. 4/36. W. H. & S. 668/91. S.O. Code No. 40-9999

2878

Form 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939.

At Bolton W.W., Holden's Farm

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 955 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
Jan.	6·80	✓			
Feb.	5·76	✓			
Mar.	2·75	✓			
April	3·30	✓			
May	1·89	✓			
June	4·70	✓			
July	9·79	✓			
Aug.	2·93	✓			
Sept.	1·61	✓			
Oct.	2·84	✓			
Nov.	8·66				
Dec.	4·26	✓			
Total	55·29	✓			

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth, B.Sc, M.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 1¼ mls Direction from gauge S.W.

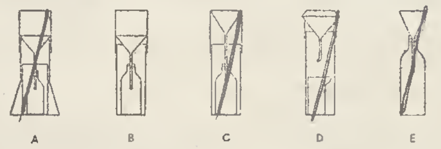
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM
VALUES FORWARDED A

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
- (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
- (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

2878

FORM 1090.

B Monthly Summary.

. The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 19~~3~~40

At Bolton W.W., Holden's Farm

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 955 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*3·70				
FEB.	3·87				
MAR.	3·73	✓			
APRIL	3·44	✓			
MAY	0·92	✓			
JUNE	1·22				
JULY	7·28	✓			
AUG.	3·45	✓			
SEPT.	5·72	✓			
OCT.	5·52				
NOV.	8·89	✓			
DEC.	7·25	✓			
TOTAL	54·99	✓			

*Estimated.

Signature John P. Ainsworth

WATERWORKS ENGINEER
15 JAN 1941
Ref
BOLTON

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:— John P. Ainsworth, Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls Direction from gauge N.N.E.

Nearest Parish Church at Belmont Distance 1¼ mls Direction from gauge S.W.

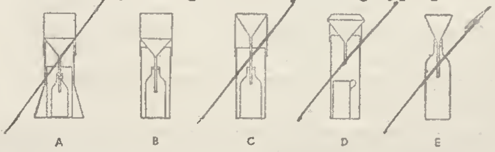
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt. 3079/2165 25,500 12/37 W. H. & S. 658/91 S.O. Code No. 40-9999

Form 1090. **B** Mo
Su

2879

2879

BOLTON, TOP-O-TH-BROW W.W.

1931 —— 40

7P0802

*** **The following register of month** … **nd also the space for**
&c., is NOT required if daily o
values are given on the other si

… ister should be sent:—

……………………

……………………

RAINFALL IN 1931

At Bolton W.W., Top-o'-th-

In the County of S. Lancas

… in Summer……………

Rain Gauge
Diameter of Funnel 5
Height of Top above Ground 1 *ft*
Height of Ground above Sea Level 9

Direction from gauge ……………
Direction from gauge ……………

Month.	Total Depth.	Greatest Fall in 24 hours.		Nur Day ·01 i or mo	
	Inches.	Inches.	Date.	*	
Jan.	8·40				
Feb.	7·15				
Mar.	·68				
April	4·42				
May	3·35				
June	6·58				
July	6·55				
Aug.	6·78				
Sept.	5·30				
Oct.	3·72				
Nov.	10·98				
Dec.	3·62				
Total	67·53				

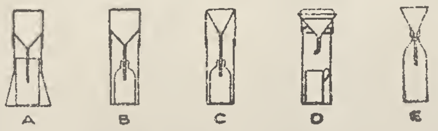
Directions from gauge ..

If gauge has been moved during the year state—

Date of move…………… Distance…………… Direction……………

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

……………………

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

2879

FORM 1090. **B** Mo
Su

***** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1931

At Bolton W.W, Top-o'-th-Brow

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft* 0 *in.*
Height of Ground above Sea Level 935 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	8·40				
FEB.	7·15				
MAR.	·68				
APRIL	4·42				
MAY	3·35				
JUNE	6·58				
JULY	6·55				
AUG.	6·78				
SEPT.	5·30				
OCT.	3·72				
NOV.	10·98				
DEC.	3·62				
Total	67·53				

Signature Bolton Corporation W.W.
per J.P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

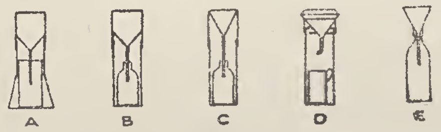
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02, *or* 0·3.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

FORM 1090.

B Monthly Summary.

2879

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Top o'th' Brow.

In the County of Lancs

Rain Gauge
- Diameter of Funnel.................in.
- *Height of Top above Ground*..........*ft*..........*in*.
- *Height of Ground above Sea Level*..........*ft*.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	7·16				
FEB.	·13				
MAR.	4·52				
APRIL	5·35				
MAY	5·74				
JUNE	1·34				
JULY	5·04				
AUG.	1·87				
SEPT.	8·90				
OCT.	11·08				
NOV.	5·11				
DEC.	3·38				
Total	59·62				

Signature Bolton Corp: W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter..........in Summer..........

Nearest Railway Station.......... Distance.......... Direction from gauge..........

Nearest Parish Church at.......... Distance.......... Direction from gauge..........

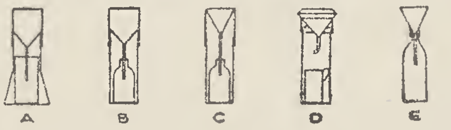
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move.......... Distance.......... Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed List

Copy by B.R.O.

16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

2879

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1933.

At Bolton W.W., Top-o'-th'-Brow

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 935 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·85				
FEB.	4·87				
MAR.	3·65				
APRIL	2·88				
MAY	2·62				
JUNE	3·62				
JULY	4·22				
AUG.	3·70				
SEPT.	1·14				
OCT.	6·12				
NOV.	2·83				
DEC.	·84				
Total	40·34				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and **B.**)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed List

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

M.O. 7
24 JAN 1934

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(506) Wt.24107/1845 15000 3/33. Gp. 119/110.

2849

FORM 1090. **B** Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1934

At Top o th' Brow

In the County of S. Lancs

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 935 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	5·21				
FEB.	0·61				
MAR.	3·39				
APRIL	3·23				
MAY	5·90				
JUNE	3·41				
JULY	3·01				
AUG.	6·32				
SEPT.	5·36				
OCT.	8·39				
NOV.	3·04				
DEC.	8·94				
Total	56·81				

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation Waterworks

Hour of observation by the clock—in Winter ...... in Summer ......

Nearest Railway Station ...... Distance ...... Direction from gauge ......

Nearest Parish Church at ...... Distance ...... Direction from gauge ......

	A	B	C	D
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move ...... Distance ...... Direction ......

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) **When was the measurement made?**

Copied from Bolton Corporation Sheet

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\begin{matrix}17\\18\end{matrix}\Big\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2879

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W., Top-o'-th'-Brow

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* = *in.*
- *Height of Ground above Sea Level* 935 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·82				
FEB.	8·92				
MAR.	2·27				
APRIL	4·72				
MAY	1·38				
JUNE	5·11				
JULY	2·61				
AUG.	2·53				
SEPT.	10·55				
OCT.	13·30				
NOV.	6·44				
DEC.	5·09				
Total	66·74				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1¼ mls. Direction from gauge E.N.E.

Nearest Parish Church at Turton Distance 1¾ mls. Direction from gauge E.S.E.

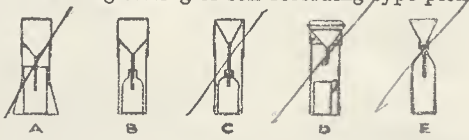
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
17 JAN. 1936
REF.
BOLTON

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9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2879

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W., Top-o'-th-Brow

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 935 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·58				
FEB.	3·20				
MAR.	4·40				
APRIL	1·26				
MAY	1·16				
JUNE	5·66				
JULY	*4·54				
AUG.	3·79				
SEPT.	6·08				
OCT.	7·39				
NOV.	8·45				
DEC.	7·08				
Total	58·59				

Signature John Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John L. Ainsworth, B.Sc., A.M.I.C.E., Waterworks Engr., St. George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1¼ mls. Direction from gauge N.N.E.

Nearest Parish Church at Turton Distance 1¾ mls. Direction from gauge S.S.E.

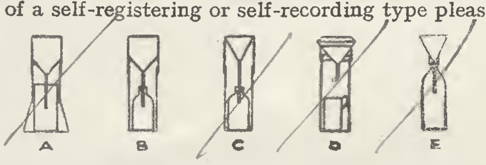
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

* Not reliable.

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2879

FORM 1090.

B Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937

At Bolton W.W., Top o'th' Brow

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 935 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·90				
FEB.	6·90				
MAR.	2·08				
APRIL	5·61				
MAY	2·40				
JUNE	2·71				
JULY	3·23				
AUG.	3·44				
SEPT.	2·45				
OCT.	2·76				
NOV.	2·02				
DEC.	5·21				
TOTAL	43·71				

Signature John P. Ainsworth

*See Instruction 2 *(f)* below.

C Particulars of Station.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1¼ mls Direction from gauge E.N.E.

Nearest Parish Church at Turton Distance 1¾ mls Direction from gauge E.S.E.

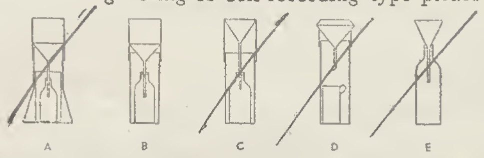
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\begin{matrix}17\\18\end{matrix}\Big\}\,{\cdot}14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2879

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W., Top-o'-th-Brow.

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* – *in.*

Height of Ground above Sea Level 935 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	7·20				
FEB.	2·81 ✓				
MAR.	2·65 ✓				
APRIL	1·18 ✓				
MAY	5·25 ✓				
JUNE	6·46 ✓				
JULY	6·65 ✓				
AUG.	4·22 ✓				
SEPT.	3·52 ✓				
OCT.	14·48 ✓				
NOV.	8·45 ✓				
DEC.	6·84 ✓				
TOTAL	69·71 ✓ ✓				

Signature John F. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Mr. John F. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1¼ mls. Direction from gauge N.N.E.

Nearest Parish Church at Turton Distance 1¾ mls. Direction from gauge E.S.E.

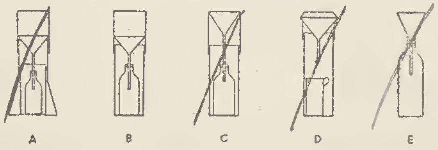
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

TRAVELLING FORM.
WHEN FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt.1046/3030. 26,000. 4/36. W. H. & S. 668/91. S.O. Code No. 40-9999

2879

FORM 1090.

B Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939

At Bolton W.W., Top o' th' Brow

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 935 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·02	✓			
FEB.	6·68	✓			
MAR.	3·19	✓			
APRIL	3·63	✓			
MAY	1·90				
JUNE	4·91	✓			
JULY	10·04	✓			
AUG.	3·18	✓			
SEPT.	1·56	✓			
OCT.	2·29	✓			
NOV.	9·64	✓			
DEC.	4·01	✓			
TOTAL	57·05				

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth, B.Sc., A.M.I.C.E.,
Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1¼ miles Direction from gauge N.N.E.

Nearest Parish Church at Turton Distance 1¾ miles Direction from gauge E.S.E.

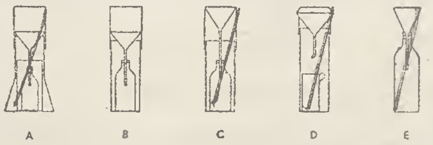
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

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(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

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(c) *On some measures there is graduation marked ·005: this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\begin{matrix}17\\18\end{matrix}\Big\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

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(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2879

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1940.

At Bolton W.W. Top-o'-th'-Brow

In the County of S. Lancashire

Rain Gauge { Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 935 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*(4·00)				
FEB.	*(3·60)				
MAR.	3·96				
APRIL	3·73				
MAY	0·87				
JUNE	1·33				
JULY	7·09				
AUG.	3·75				
SEPT.	6·88				
OCT.	6·25				
NOV.	10·35				
DEC.	7·92				
TOTAL	(59·73)				

*Estimated.

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :— John P. Ainsworth, Waterworks Engineer, Bolton

Hour of observation by the clock—in Winter 9 am. in Summer 9 am.

Nearest Railway Station Entwistle Distance 1¼ mls Direction from gauge S.S.E.

Nearest Parish Church at Turton Distance 1¾ mls Direction from gauge S.S.E.

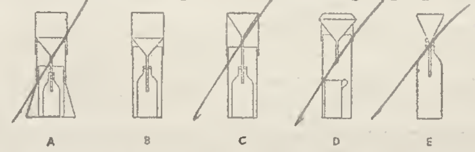
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM
VALUES FORWARDED MONTHLY

WATERWORKS
ENGINEER
15 JAN 1941
Ref ....
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

2881

Section **A** for the ent

AIR MIN

COPY FOR OFFICIAL USE.

ALL ORGANIZATION.

FORM 1090.

REC 1.

2881

ENTWISTLE

1931 – 40

Kept at Entw

in the County of La

Diameter of Funnel of Gauge

Height of top of Gauge above

,, Ground ,,

THE MORNING M 780502 **Y.**

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0·08	—	—	0·09	—	—	—	0·01	0·09	0·20	—	—	1
2	0·02	0·11	—	0·84	—	1·18	0·04	—	1·48	0·08	0·07	0·10	2
3	—	—	—	0·08	—	0·16	0·47	—	0·26	0·06	1·70	0·34	3
4	—	0·01	—	0·49	0·01	—	0·23	0·03	1·58	0·09	0·09	0·37	4
5	—	0·21	—	—	0·19	0·74	0·28	0·92	0·47	0·01	—	0·48	5
6	—	0·32	0·01	0·02	0·07	0·44	0·18	0·02	0·28	0·68	0·40	0·01	6
7	0·01	0·02	—	—	0·03	0·53	—	0·26	—	0·33	0·13	0·26	7
8	0·09	0·39	0·02	0·09	—	0·03	0·13	0·32	0·07	0·04	0·14	0·02	8
9	0·02	0·80	0·01	0·26	0·01	0·04	0·01	0·42	0·17	0·12	0·35	0·12	9
10	0·09	0·19	—	—	0·31	0·87	—	0·28	0·09	0·02	0·40	0·02	10
11	0·89	0·61	—	0·09	0·01	0·04	0·23	0·01	0·40	—	0·86	0·02	11
12	0·08	0·32	—	0·08	—	0·07	0·21	0·02	0·11	0·36	0·13	—	12
13	—	—	0·38	—	0·37	0·04	0·12	0·06	—	—	0·01	—	13
14	0·18	0·14	0·01	0·02	0·01	1·06	0·31	0·76	0·01	—	0·59	0·01	14
15	0·47	0·53	—	0·24	0·24	0·01	0·13	0·24	—	—	—	0·04	15
16	0·72	0·08	—	0·77	0·19	0·29	0·17	0·89	0·26	—	—	—	16
17	0·07	0·03	—	0·15	0·06	0·06	1·07	0·57	0·09	—	0·12	—	17
18	0·53	—	—	0·03	0·02	0·57	0·65	0·16	0·01	—	0·84	—	18
19	0·29	0·37	—	—	—	0·01	0·54	1·29	—	0·03	0·02	0·02	19
20	0·06	0·20	0·03	—	—	0·23	0·01	0·06	—	—	0·18	—	20
21	0·78	0·08	0·22	—	0·17	0·11	0·02	0·28	—	—	0·02	—	21
22	0·57	0·06	0·01	0·07	0·16	0·05	0·13	—	—	—	0·09	—	22
23	0·37	0·02	—	0·36	0·45	0·21	0·13	—	—	—	1·23	0·46	23
24	0·02	0·39	—	0·10	0·45	0·01	0·11	—	—	—	0·17	0·13	24
25	0·21	1·16	—	0·23	0·14	—	0·08	—	—	—	0·10	0·21	25
26	0·04	0·28	—	0·52	—	—	—	—	—	—	0·76	0·08	26
27	0·73	0·07	—	0·09	0·13	—	0·40	—	—	0·37	2·00	0·06	27
28	0·66	0·46	—	0·09	0·21	—	0·20	—	0·14	—	0·01	0·17	28
29	0·42	×	—	0·02	0·17	—	0·23	—	—	0·95	0·02	—	29
30	0·01	×	—	0·01	—	0·01	—	—	0·20	—	0·01	—	30
31	0·70	×	—	×	—	×	0·13	—	×	0·06	×	0·15	31
TOTAL	8·08	6·85	0·66	4·38	3·40	6·67	6·12	6·60	5·68	3·34	10·44	3·07	YEAR'S TOTAL 65·29
*Days with ·01 in. or more.	~~26~~	~~24~~	~~8~~	~~23~~	~~21~~	~~23~~	~~26~~	~~19~~	~~17~~	~~15~~	~~26~~	~~20~~	~~248~~
*Days with ·04 in. or more.	~~21~~	~~20~~	~~2~~	~~18~~	~~18~~	~~18~~	~~23~~	~~14~~	~~15~~	~~12~~	~~20~~	~~14~~	~~192~~

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) John P. Ainsworth

[P.T.O.

2881

Section **A** for the en

AIR MINISTRY

COPY FOR OFFICIAL USE.

ALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Entwistle

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft " in.

,, Ground ,, Sea Level 692 ft.

WATERWORKS ENGINEER
15 JAN. 1932
REF.
BOLTON

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0·08	–	–	0·09	–	–	–	0·01	0·09	0·20	–	–	1
2	0·02	0·11	–	0·54	–	1·15	0·04	–	1·48	0·08	0·07	0·10	2
3	–	–	–	0·08	–	0·16	0·47	–	0·26	0·06	1·70	0·34	3
4	–	0·01	–	0·49	0·01	–	0·23	0·03	1·55	0·09	0·09	0·37	4
5	–	0·21	–	–	0·19	0·74	0·25	0·92	0·47	0·01	–	0·48	5
6	–	0·32	0·01	0·02	0·07	0·44	0·15	0·02	0·28	0·65	0·40	0·01	6
7	0·01	0·02	–	–	0·03	0·53	–	0·26	–	0·33	0·13	0·26	7
8	0·09	0·39	0·02	0·09	–	0·03	0·13	0·32	0·07	0·04	0·14	0·02	8
9	0·02	0·80	0·01	0·26	0·01	0·04	0·01	0·42	0·17	0·12	0·35	0·12	9
10	0·09	0·19	–	–	0·31	0·87	–	0·28	0·09	0·02	0·40	0·02	10
11	0·89	0·61	–	0·09	0·01	0·04	0·23	0·01	0·40	–	0·86	0·02	11
12	0·08	0·32	–	0·05	–	0·07	0·21	0·02	0·11	0·36	0·13	–	12
13	–	–	0·35	–	0·37	0·04	0·12	0·06	–	–	0·01	–	13
14	0·15	0·14	0·01	0·02	0·01	1·06	0·31	0·76	0·01	–	0·59	0·01	14
15	0·47	0·53	–	0·24	0·24	0·01	0·13	0·24	–	–	–	0·04	15
16	0·72	0·08	–	0·77	0·19	0·29	0·17	0·89	0·26	–	–	–	16
17	0·07	0·03	–	0·15	0·06	0·06	1·07	0·57	0·09	–	0·12	–	17
18	0·53	–	–	0·03	0·02	0·57	0·65	0·16	0·01	–	0·84	–	18
19	0·29	0·37	–	–	–	0·01	0·54	1·29	–	0·03	0·02	0·02	19
20	0·06	0·20	0·03	–	–	0·23	0·01	0·06	–	–	0·18	–	20
21	0·78	0·08	0·22	–	0·17	0·11	0·02	0·28	–	–	0·02	–	21
22	0·57	0·06	0·01	0·07	0·16	0·05	0·13	–	–	–	0·09	–	22
23	0·37	0·02	–	0·36	0·45	0·21	0·13	–	–	–	1·23	0·46	23
24	0·02	0·39	–	0·10	0·45	0·01	0·11	–	–	–	0·17	0·13	24
25	0·21	1·16	–	0·23	0·14	–	0·05	–	–	–	0·10	0·21	25
26	0·04	0·28	–	0·52	–	–	–	–	–	–	0·76	0·08	26
27	0·73	0·07	–	0·09	0·13	–	0·40	–	–	0·37	2·00	0·06	27
28	0·66	0·46	–	0·09	0·21	–	0·20	–	0·14	–	0·01	0·17	28
29	0·42	×	–	0·02	0·17	–	0·23	–	–	0·95	0·02	–	29
30	0·01	×	–	0·01	–	0·01	–	–	0·20	–	0·01	–	30
31	0·70	×	–	×	–	×	0·13	–	×	0·06	×	0·15	31
TOTAL	8·08	6·85	0·66	4·38	3·40	6·67	6·12	6·60	5·68	3·34	10·44	3·07	YEAR'S TOTAL 65·29
*Days with ·01 in. or more.	~~26~~	~~24~~	~~8~~	~~23~~	~~21~~	~~23~~	~~26~~	~~19~~	~~17~~	~~15~~	~~26~~	~~20~~	~~248~~
*Days with ·04 in. or more.	~~21~~	~~20~~	~~2~~	~~18~~	~~15~~	~~18~~	~~23~~	~~14~~	~~15~~	~~12~~	~~20~~	~~14~~	~~197~~

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) John P. Cunscott

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2881

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at ENTWISTLE

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft - in.

,, Ground ,, Sea Level 692 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0.33	--	--	0.54	0.13	--	0.14	0.04	0.65	0.31	0.14	0.16	1
2	1.44	--	--	0.01	0.32	--	0.08	0.03	1.81	0.22	0.19	0.73	2
3	0.05	--	--	0.05	--	--	0.11	0.03	0.21	--	0.01	0.08	3
4	0.10	--	0.01	--	--	--	0.41	0.02	0.10	0.07	0.09	0.03	4
5	1.21	--	0.10	0.55	0.05	--	0.02	0.02	0.23	--	--	0.01	5
6	1.17	--	0.16	0.74	0.01	--	--	0.01	0.18	0.01	--	--	6
7	0.18	--	0.88	0.16	--	--	--	--	1.07	0.70	--	--	7
8	--	--	--	0.18	--	--	--	--	0.66	0.70	--	--	8
9	0.21	0.02	--	0.40	0.11	--	--	--	0.07	0.01	--	0.03	9
10	0.53	0.02	0.03	0.06	--	--	--	--	0.90	0.37	--	0.02	10
11	0.09	0.02	0.02	0.03	1.03	0.02	0.28	0.01	0.09	0.07	--	--	11
12	0.46	--	--	--	0.68	0.05	0.04	0.29	0.02	0.56	--	--	12
13	0.01	0.04	--	0.13	0.16	--	0.16	0.02	0.39	0.43	--	0.50	13
14	0.25	--	--	0.08	--	--	0.14	0.17	0.02	0.32	0.09	0.02	14
15	0.02	--	--	--	0.69	--	--	--	--	0.27	0.15	0.17	15
16	0.31	--	--	0.02	--	--	0.36	0.01	--	0.30	0.01	0.27	16
17	--	--	--	--	--	--	0.07	0.08	0.09	0.72	--	0.02	17
18	--	--	--	0.01	0.22	--	0.01	--	0.05	0.03	0.01	--	18
19	--	--	--	0.17	0.08	--	0.01	--	--	0.61	--	--	19
20	--	--	--	0.06	0.39	--	0.11	0.33	--	0.21	0.10	0.04	20
21	0.06	--	0.33	0.09	0.32	--	0.10	0.36	--	0.65	0.15	0.08	21
22	0.01	--	0.40	0.23	0.03	--	0.13	--	--	0.11	1.25	0.08	22
23	--	0.02	0.01	0.09	0.62	--	0.28	--	--	0.10	0.12	0.12	23
24	0.07	--	--	0.03	0.03	0.05	0.32	--	0.26	0.04	0.21	0.03	24
25	--	0.02	--	0.16	0.21	0.02	0.03	--	0.21	1.23	0.20	--	25
26	0.01	0.01	--	0.03	0.18	--	0.45	--	0.20	0.67	0.27	--	26
27	--	--	0.47	0.45	0.26	0.20	0.35	0.02	--	0.10	0.23	0.15	27
28	--	--	0.11	0.15	0.18	--	0.34	--	--	--	0.01	0.05	28
29	0.13	--	1.23	0.51	0.04	0.18	0.42	0.41	0.14	1.10	0.67	0.25	29
30	--	×	0.33	0.01	0.05	0.62	0.09	0.04	0.01	0.45	0.73	0.12	30
31	0.02	×	0.05	×	0.02	×	0.19	--	×	0.01	×	0.14	31
TOTAL	6.66	0.15	4.13	4.94	5.81	1.14	4.64	1.89	7.36	10.37	4.63	3.10	YEAR'S TOTAL 54.82
*Days with ·01 in. or more.	~~21~~	~~7~~	~~14~~	~~26~~	~~23~~	~~7~~	~~25~~	~~17~~	~~21~~	~~28~~	~~19~~	~~22~~	~~230~~
*Days with .04 in. or more.	~~16~~	~~1~~	~~10~~	~~19~~	~~19~~	~~5~~	~~21~~	~~8~~	~~18~~	~~24~~	~~15~~	15	~~171~~

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) John P. Ainsworth

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2881

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at ENTWISTLE

in the County of Lancashire.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft -- in.

,, Ground ,, Sea Level 700 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0.03	0.33	0.09	--	0.03	--	0.01	0.05	0.10	--	0.61	--		1
2	0.71	--	0.27	0.42	--	0.19	--	0.09	0.01	--	--	--		2
3	0.03	0.82	0.53	0.01	0.34	--	--	0.01	--	--	0.02	--		3
4	0.35	0.17	0.31	--	0.23	--	--	0.01	--	0.01	0.01	--		4
5	0.21	0.24	0.08	--	0.10	--	--	--	--	--	0.06	--		5
6	--	0.18	0.02	--	0.10	--	--	--	--	--	0.01	0.01		6
7	0.11	0.49	0.18	--	0.03	--	0.50	0.15	--	0.54	--	0.02		7
8	0.41	0.09	0.23	0.18	0.03	0.08	0.24	0.03	--	0.01	0.01	0.03		8
9	--	0.49	--	0.26	0.17	0.01	0.98	0.06	--	0.75	0.18	--		9
10	0.22	0.01	--	--	--	0.05	0.16	--	--	0.97	0.25	--		10
11	--	--	--	--	--	--	0.26	0.02	--	0.63	0.02	0.07		11
12	0.02	0.01	--	--	--	0.13	0.25	--	--	0.27	--	0.03		12
13	--	--	0.02	--	0.21	--	0.47	0.07	0.03	0.29	0.30	--		13
14	0.24	--	0.02	--	--	--	0.15	0.12	--	0.02	0.78	0.03		14
15	0.23	--	0.09	--	--	0.04	0.05	0.16	0.01	0.32	0.40	0.01		15
16	0.19	0.05	0.21	0.18	0.04	0.48	0.02	0.01	--	0.47	0.07	0.02		16
17	0.03	--	0.56	0.06	--	1.14	--	0.45	0.17	0.01	0.01	0.01		17
18	0.04	0.01	0.32	--	0.21	0.56	--	0.13	--	--	0.02	--		18
19	--	0.01	0.33	0.02	--	0.14	0.06	0.02	0.21	--	0.15	--		19
20	--	0.21	--	--	0.15	0.21	--	0.49	--	--	0.01	--		20
21	--	0.01	0.02	--	--	--	--	0.40	0.01	--	0.01	--		21
22	--	--	--	--	--	0.01	--	0.05	--	0.07	--	0.03		22
23	--	--	--	0.53	--	0.05	--	0.05	0.02	0.07	--	0.01		23
24	--	0.13	--	0.25	0.20	0.12	--	--	0.46	0.01	0.01	--		24
25	--	0.89	--	0.10	0.01	--	--	--	0.06	--	--	0.13		25
26	--	0.69	--	0.36	--	--	--	--	--	0.65	--	0.01		26
27	--	0.07	--	--	0.42	--	0.01	--	--	0.01	--	--		27
28	--	0.01	--	0.07	--	--	0.08	0.07	--	0.15	--	--		28
29	--	X	--	--	--	--	0.27	0.01	--	0.01	--	0.11		29
30	0.04	X	0.08	--	0.08	--	0.39	--	0.01	0.33	--	0.34		30
31	0.65	X	0.11	X	--	X	0.28	0.42	X	0.56	X	--		31
TOTAL	3.51	4.91	3.47	2.44	2.35	3.21	4.18	2.87	1.09	6.15	2.93	0.86	Year's Total 37.97	
*Days with ·01 in. or more.	~~16~~	~~20~~	~~18~~	~~12~~	~~16~~	~~14~~	~~17~~	~~22~~	~~11~~	~~21~~	~~19~~	~~15~~	~~201~~	
*Days with .04 in. or more.	~~12~~	~~14~~	~~14~~	~~10~~	~~12~~	~~12~~	~~14~~	~~15~~	~~5~~	~~14~~	~~9~~	~~4~~	~~135~~	

40-9999

*See Instruction 2 (*f*) on other side.

D

† Spare column, no entries required.

(*Signed*) John T. Ainsworth

[P.T.O.

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

Station No. 2881

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

WATERWORKS ENGINEER
-9 JAN. 1935
REF.
BOLTON

Kept at ENTWISTLE

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. - in.

,, Ground ,, Sea Level 692 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0.25	--	0.02	--	--	--	--	0.06	0.06	0.03	0.08	0.58		1
2	0.01	0.02	0.21	--	0.02	--	--	1.02	0.05	--	0.39	0.75		2
3	0.24	0.01	0.01	--	--	--	--	0.08	0.01	0.38	0.13	0.11		3
4	0.36	--	0.24	0.09	0.10	--	--	0.08	0.17	1.36	0.01	1.18		4
5	--	--	0.11	--	0.25	--	--	0.56	0.02	0.45	0.03	0.24		5
6	0.01	--	0.12	0.07	0.85	0.06	--	0.29	0.06	0.41	--	0.47		6
7	0.58	0.06	0.11	0.15	--	0.27	--	--	--	0.13	0.64	0.64		7
8	--	--	0.01	0.01	0.19	0.22	--	0.06	0.02	0.25	0.73	0.02		8
9	--	0.10	0.20	0.01	--	--	--	0.22	--	0.03	0.32	0.02		9
10	--	0.02	0.61	0.14	--	--	--	0.44	--	0.68	0.02	--		10
11	0.09	--	0.06	0.41	--	--	--	0.37	--	0.03	0.01	0.29		11
12	--	--	0.02	0.23	--	--	0.02	0.09	--	0.17	--	0.12		12
13	0.53	--	0.03	0.05	0.15	--	0.06	0.03	--	0.26	--	--		13
14	0.48	--	0.31	--	0.15	0.02	--	--	--	0.56	0.02	0.23		14
15	0.54	0.02	0.24	--	1.38	0.01	0.06	0.15	0.18	0.02	0.04	0.37		15
16	0.64	--	0.26	--	0.33	--	0.01	--	--	0.03	0.01	0.02		16
17	0.36	--	0.29	0.11	0.16	--	0.40	--	0.47	0.08	--	0.40		17
18	0.38	--	0.29	0.28	0.83	0.14	--	0.05	0.03	--	--	0.39		18
19	--	--	0.22	0.01	0.14	0.54	--	0.02	0.62	0.31	--	0.03		19
20	--	--	0.03	0.21	0.61	--	--	0.07	0.11	0.17	0.03	0.01		20
21	0.11	--	0.05	--	0.03	1.06	--	0.08	0.09	0.10	--	--		21
22	0.11	--	0.04	--	0.06	--	0.01	0.21	0.82	0.12	0.03	0.03		22
23	0.02	--	0.11	0.68	0.02	0.01	0.55	0.08	0.02	0.26	0.07	0.13		23
24	--	0.25	0.07	0.30	0.01	0.05	0.03	--	0.56	0.33	0.01	0.01		24
25	0.09	0.01	0.01	0.11	0.04	--	0.19	--	0.41	0.35	--	0.69		25
26	0.04	--	0.03	0.33	--	0.16	0.35	--	0.32	0.04	0.03	0.02		26
27	--	--	--	0.13	--	0.25	0.44	--	0.02	0.32	0.05	0.48		27
28	--	--	--	0.06	--	0.57	0.16	0.47	--	0.29	--	0.90		28
29	--	×	--	--	--	--	0.05	1.04	0.36	0.17	--	0.16		29
30	0.12	×	--	--	--	--	0.07	0.11	0.48	0.37	--	0.12		30
31	0.03	×	--	×	--	×	0.11	0.20	×	0.18	×	0.20		31
TOTAL	4.99	0.49	3.70	3.38	5.32	3.36	2.51	5.78	4.88	7.88	2.65	8.61	Year's Total 53.55	
*Days with .01 in. or more.	~~20~~	~~8~~	~~26~~	~~19~~	~~18~~	~~13~~	~~15~~	~~23~~	~~21~~	~~29~~	~~19~~	~~28~~	~~239~~	
*Days with .04 in. or more.	~~16~~	~~3~~	~~18~~	~~16~~	~~14~~	~~10~~	~~11~~	~~21~~	~~15~~	~~24~~	~~9~~	~~20~~	~~177~~	

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) John L. Ainsworth

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2881

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Bolton W.W. Entwistle no2.

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft – in.

„ Ground „ Sea Level 692 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·92	0·64	0·01	0·04	–	0·07	0·16	–	0·49	1·04	0·20	0·44		1
2	0·02	0·24	0·02	–	–	0·26	0·02	–	0·11	0·22	0·06	0·15		2
3	0·13	1·11	0·12	0·13	–	0·05	0·38	–	0·27	0·06	0·13	0·38		3
4	–	0·03	0·10	0·01	–	0·59	0·05	–	0·42	0·23	–	0·06		4
5	–	0·74	0·13	0·31	–	0·21	0·04	–	0·38	0·01	0·28	0·39		5
6	–	0·01	–	0·08	–	0·29	–	–	–	–	–	0·01		6
7	–	–	–	0·18	–	0·37	–	–	–	0·28	0·20	0·35		7
8	–	–	–	0·13	–	0·01	–	0·01	–	0·40	0·12	0·76		8
9	0·03	0·01	–	0·40	–	0·03	–	–	–	1·98	0·29	0·01		9
10	0·01	0·11	–	0·30	–	0·01	–	–	–	0·28	0·33	–		10
11	0·53	0·19	–	–	–	0·42	–	0·05	–	0·47	0·09	–		11
12	0·02	0·36	–	–	–	0·49	–	–	0·12	0·01	–	–		12
13	0·18	0·08	–	0·12	0·37	0·01	–	–	0·16	0·09	0·11	–		13
14	0·01	–	–	0·06	0·02	0·19	–	–	0·12	–	1·05	0·51		14
15	–	1·54	–	0·42	0·13	0·02	–	–	0·24	0·24	0·07	0·41		15
16	–	0·48	0·12	0·49	0·21	0·27	0·05	0·02	0·97	–	0·26	–		16
17	–	0·02	–	0·39	0·80	0·23	0·25	0·08	0·56	0·11	0·57	–		17
18	–	0·06	–	0·07	0·15	0·05	0·54	–	0·83	0·43	0·13	–		18
19	–	0·09	–	0·16	0·03	0·47	0·30	–	0·01	0·12	0·31	0·03		19
20	–	0·91	–	0·71	–	0·31	0·04	–	–	–	0·01	–		20
21	–	0·11	0·05	–	–	–	–	–	1·72	0·29	0·02	0·19		21
22	–	0·21	0·13	0·32	–	–	–	–	0·02	–	0·01	0·01		22
23	0·05	0·01	1·00	0·08	–	–	–	0·34	0·03	0·50	–	–		23
24	0·68	0·64	0·08	0·02	–	–	–	–	1·94	0·11	0·01	0·19		24
25	0·17	0·03	0·14	–	–	0·22	–	–	–	–	0·05	0·05		25
26	–	–	–	–	–	–	0·13	1·28	0·65	0·59	0·20	0·24		26
27	–	0·10	–	–	0·04	0·11	0·51	0·01	0·21	1·66	0·63	0·10		27
28	0·05	0·24	–	–	0·05	0·01	–	0·02	0·13	0·73	0·09	0·01		28
29	–	X	0·04	–	–	0·02	–	0·09	0·38	0·28	0·05	0·29		29
30	0·17	X	–	–	–	0·32	–	0·31	0·22	0·90	0·83	0·14		30
31	0·07	X	0·02	X	–	X	–	–	X	0·17	X	0·67		31
TOTAL	3·04	7·96	1·96	4·42	1·80	5·03	2·47	2·21	9·98	11·20	6·10	5·39	Year's Total 61·56	
*Days with ·01 in. or more.	~~15~~	~~24~~	~~13~~	~~20~~	~~9~~	~~25~~	~~12~~	~~10~~	~~22~~	~~28~~	~~26~~	~~22~~	~~223~~	
*Days with .04 in. or more.	~~10~~	~~19~~	~~10~~	~~18~~	~~7~~	~~18~~	~~11~~	~~6~~	~~19~~	~~23~~	~~22~~	~~17~~	~~179~~	

WATERWORKS ENGINEER
17 JAN 1936
BOLTON

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) John Kenworthy

[P. T. O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2881

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Bolton W.W., Entwistle No. 2.

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 692 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	0·03	0·14	0·08	0·25	–	–	–	0·54	0·06	–	0·26	0·37		1
2	0·04	0·15	–	0·03	–	0·33	–	0·15	0·01	–	0·08	0·33		2
3	–	–	–	–	–	0·87	0·02	0·18	1·17	–	–	0·08		3
4	0·47	0·32	0·43	–	–	0·05	0·01	0·09	0·29	–	0·25	0·42		4
5	0·16	0·10	0·79	–	–	–	–	0·41	0·60	–	0·01	0·44		5
6	0·25	–	0·03	–	–	0·04	0·20	0·84	0·84	–	0·25	–		6
7	–	–	0·23	–	–	–	0·07	–	1·53	–	0·47	0·39		7
8	0·46	–	0·46	–	–	–	–	–	0·01	–	0·48	0·24		8
9	0·43	–	0·11	–	–	0·03	0·05	–	0·19	0·03	1·26	0·01		9
10	0·12	–	–	–	–	–	0·13	–	0·01	–	1·83	–		10
11	–	–	0·01	0·04	–	0·12	0·72	0·03	0·09	–	0·69	0·01		11
12	–	–	–	0·08	0·04	0·71	0·80	0·03	0·68	0·08	0·16	0·01		12
13	0·02	–	–	0·04	0·04	0·02	0·08	–	0·01	0·36	0·01	1·03		13
14	–	–	–	0·07	–	0·58	0·03	0·24	0·11	0·43	0·32	1·29		14
15	0·25	–	–	0·19	0·12	0·26	0·13	0·19	0·05	–	0·55	0·09		15
16	0·05	0·16	0·01	0·05	0·02	0·02	0·03	–	–	0·06	0·83	–		16
17	0·11	0·69	0·01	0·04	–	–	0·09	0·16	–	0·84	0·07	0·23		17
18	–	0·03	–	0·03	–	0·03	0·42	0·20	–	1·12	–	0·02		18
19	0·48	0·55	0·01	0·01	–	0·07	0·34	0·85	–	0·18	–	–		19
20	0·31	0·12	0·08	–	–	0·04	0·07	–	–	0·03	–	–		20
21	0·18	0·03	0·01	0·07	–	0·01	–	–	–	0·14	–	0·04		21
22	0·35	0·32	0·09	–	–	1·48	0·18	–	–	0·03	–	0·05		22
23	0·01	0·03	0·13	0·32	0·03	0·01	1·12	–	–	0·09	–	–		23
24	0·25	0·02	–	0·10	0·20	–	0·01	–	0·20	1·09	0·01	0·05		24
25	0·40	–	–	0·04	–	–	0·09	–	0·49	0·35	–	0·01		25
26	0·10	0·44	0·04	0·04	–	–	–	–	0·16	0·84	–	0·01		26
27	1·18	0·11	0·08	0·01	–	–	–	–	0·08	0·76	–	–		27
28	0·29	0·41	0·15	–	–	0·05	0·12	–	–	–	–	0·15		28
29	0·16	0·19	1·45	–	0·07	0·45	0·03	–	–	0·19	0·31	0·02		29
30	0·45	✕	0·04	–	0·77	0·12	0·55	0·01	–	0·46	0·15	0·13		30
31	0·02	✕	0·01	✕	0·02	✕	0·21	0·05	✕	0·01	✕	0·79		31
TOTAL	6·57	3·81	4·25	1·41	1·31	5·29	5·50	3·97	6·58	7·09	7·99	6·21	Year's Total 59·98	
* Days with .01 in. or more.	~~25~~	~~17~~	~~11~~	~~17~~	~~9~~	~~20~~	~~24~~	~~15~~	~~19~~	~~19~~	~~19~~	~~24~~	~~222~~	
* Days with .04 in. or more.	~~21~~	~~13~~	~~7~~	~~12~~	~~6~~	~~14~~	~~18~~	~~12~~	~~15~~	~~15~~	~~16~~	~~17~~	~~167~~	

WATERWORKS ENGINEER
12 JAN 1937
REF.
BOLTON

40-9999

† Spare column, no entries required.

(Signed)

* See Instruction 2 (f) on other side.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2881

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

Kept at Bolton W.W. Entwistle ~~No 2~~

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. – in.

" Ground " Sea Level 700 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	0·02	0·03	0·10	–	–	0·02	0·13	–	0·53	0·06	–	0·21		1
2	0·32	0·40	0·27	0·20	–	0·01	–	–	0·02	0·02	–	0·01		2
3	–	0·21	0·02	0·05	0·09	0·84	0·19	–	–	–	–	0·02		3
4	0·42	0·04	0·02	0·15	0·19	–	0·03	–	0·01	–	–	0·68		4
5	1·63	–	0·04	0·02	–	0·05	0·03	–	0·02	–	–	0·05		5
6	0·03	–	0·01	0·22	0·12	–	–	0·10	0·09	0·01	0·01	0·06		6
7	–	0·25	–	0·46	0·16	0·14	–	–	0·14	–	–	–		7
8	0·02	0·63	0·01	0·08	0·01	0·20	0·12	–	–	–	0·03	0·03		8
9	0·03	0·22	0·02	0·14	0·22	–	0·71	0·33	–	–	–	–		9
10	0·01	0·14	–	0·01	0·01	0·01	0·03	–	–	–	–	0·42		10
11	–	0·03	0·09	–	0·14	–	0·02	–	–	–	–	0·01		11
12	0·09	0·56	0·25	–	0·01	0·21	0·07	0·21	0·45	–	–	0·44		12
13	–	0·28	–	–	–	0·11	–	0·71	0·03	–	–	0·39		13
14	–	0·27	0·25	–	–	0·01	–	0·45	0·24	–	0·05	0·42		14
15	0·29	0·71	–	0·51	–	–	0·29	–	0·22	–	–	0·06		15
16	0·07	0·76	0·27	0·92	–	–	–	0·29	0·07	–	–	–		16
17	0·17	0·06	0·26	0·53	–	0·08	–	0·03	0·08	–	–	–		17
18	0·24	0·49	0·11	0·67	0·02	–	–	0·33	0·09	0·01	0·35	–		18
19	0·19	0·35	0·12	0·51	–	0·04	0·02	0·05	0·01	–	0·41	–		19
20	0·05	0·13	–	0·13	0·31	0·17	–	–	–	–	–	0·30		20
21	0·01	0·06	0·03	0·26	0·02	–	0·64	–	–	0·15	0·02	0·16		21
22	0·25	0·02	0·04	0·05	0·09	–	0·37	–	–	0·40	0·31	0·18		22
23	0·18	–	0·03	–	0·37	–	0·29	–	–	0·40	0·19	–		23
24	0·13	0·38	0·20	–	0·02	–	0·12	–	0·22	0·39	–	0·13		24
25	0·09	0·88	–	–	–	–	–	0·34	0·01	0·07	–	0·05		25
26	–	0·43	0·03	–	0·41	–	–	0·04	0·12	0·01	–	0·05		26
27	–	0·40	0·03	0·15	–	–	–	–	–	0·66	–	0·03		27
28	–	–	–	–	–	0·03	–	–	–	0·15	–	–		28
29	0·01	×	–	–	–	0·05	–	–	–	0·05	0·19	0·01		29
30	0·15	×	–	–	–	0·41	–	0·19	0·02	0·15	0·63	0·01		30
31	0·33	×	–	×	0·01	×	–	0·16	×	0·23	×	–		31
TOTAL	4·73	7·73	2.20	5·06	2·20	2·38	3·06	3·23	2·37	2·76	2·19	3·72	Year's Total 41·63	
* Days with .01 in. or more.	23	24	21	18	17	16	15	13	18	15	10	22	212	
* Days with .04 in. or more.	[illegible]	21	12	16	10	11	10	12	11	11	7	15	152	

WATERW ENGINEER BOLTON 12 JAN 1938

40-9999.

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(Signed) .... [P.T.O.

COPY FOR OFFICIAL USE

Section A **for the entry of Daily Observations** **Station No.** 2881

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM [illegible]0

REGISTER OF RAINFALL IN 1938

Kept at Bolton W.W., Entwistle

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. – in.

" Ground " Sea Level 700 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	—	0·02	—	0·03	—	0·96	—	0·14	—	0·04	0·23	0·35		1
2	0·03	0·05	—	0·64	0·02	0·52	0·04	—	—	2·12	0·42	0·37		2
3	0·02	—	0·02	0·04	—	0·03	0·17	—	0·26	1·83	0·33	0·04		3
4	0·03	0·03	—	0·23	—	0·15	0·45	0·15	—	0·28	0·23	1·32		4
5	0·06	0·02	—	0·03	—	—	0·29	0·30	0·13	0·63	—	0·03		5
6	0·27	—	—	—	—	0·09	0·35	—	0·86	0·52	0·01	0·03		6
7	0·45	—	—	—	—	—	0·76	0·01	0·18	0·34	—	—		7
8	0·57	0·01	—	—	—	—	0·61	—	—	1·19	—	0·40		8
9	0·16	0·86	0·38	—	—	0·34	0·16	—	—	0·17	—	0·23		9
10	—	0·06	0·11	—	—	0·30	0·87	0·01	—	0·22	—	0·12		10
11	0·17	0·15	—	—	0·07	0·03	0·21	0·15	0·03	0·14	0·14	0·17		11
12	0·36	0·01	—	—	0·36	—	0·01	0·05	—	1·68	0·70	0·01		12
13	0·01	0·01	—	—	0·08	—	0·09	—	0·13	0·27	0·30	0·32		13
14	0·34	0·01	—	—	0·24	0·01	0·10	—	0·08	0·01	0·26	0·01		14
15	0·45	—	—	—	0·04	—	0·10	0·43	—	0·06	—	0·27		15
16	0·46	—	0·09	—	0·43	—	0·16	0·27	—	0·24	0·20	0·08		16
17	—	—	—	—	0·48	—	0·24	0·35	0·43	0·63	0·04	0·06		17
18	0·13	—	—	—	0·08	0·06	—	0·61	0·09	0·55	0·61	—		18
19	0·01	—	—	—	—	0·03	—	0·18	0·12	—	0·02	0·03		19
20	0·51	—	0·05	—	—	—	—	0·08	0·19	—	0·42	0·01		20
21	0·03	—	0·04	—	—	—	—	0·07	0·01	—	0·05	0·01		21
22	—	—	—	—	0·02	0·37	—	—	—	—	0·69	0·03		22
23	0·02	—	—	—	0·30	0·45	—	0·03	0·08	—	0·58	—		23
24	0·38	0·12	0·27	—	0·13	0·06	0·06	0·57	0·03	0·04	0·19	—		24
25	0·18	0·59	0·16	—	0·03	0·15	0·29	0·01	—	0·63	0·70	0·11		25
26	0·37	0·49	0·39	—	0·20	0·19	—	—	0·02	0·50	0·23	0·10		26
27	0·78	0·17	—	—	0·44	0·48	0·38	0·13	—	—	0·70	—		27
28	0·32	0·10	0·23	—	0·04	1·26	0·17	0·05	0·07	0·02	0·03	0·14		28
29	0·22	×	0·20	—	1·52	0·47	0·43	—	—	0·24	0·23	0·76		29
30	0·44	×	—	—	0·18	0·01	0·09	—	0·54	0·02	0·63	0·08		30
31	0·30	×	0·05	×	0·53	×	—	—	×	0·69	×	1·14		31
TOTAL	7·07	2·70	1·99	0·97	5·19	5·96	6·03	3·59	3·25	13·06	7·94	6·22	Year's Total 63·97	
* Days with .01 in. or more.	27	11	12	5	19	20	22	19	17	25	24	26	232	
* Days with .04 in. or more.	20	9	11	3	16	15	21	15	13	22	21	18	184	

WATERWORKS ENGINEER ★ BOLTON ★ 12 JAN 1939

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) ....

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2881

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939

Kept at Bolton W.W., Entwistle

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 700 ft.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·45	–	0·33	0·34	–	–	0·02	0·02	0·03	0·10	–	0·48		1
2	0·03	–	–	0·13	–	–	0·81	0·56	0·76	–	0·05	0·08		2
3	0·06	–	0·01	0·08	–	–	–	0·22	0·07	–	0·08	0·64		3
4	0·11	0·01	0·43	0·77	0·03	–	0·47	–	–	0·13	0·01	0·75		4
5	–	0·01	–	0·01	0·53	–	0·30	0·14	–	0·44	0·43	0·01		5
6	1·28	0·28	–	–	–	–	0·70	0·02	–	0·01	0·07	–		6
7	0·24	0·33	0·12	–	–	–	0·14	0·01	–	0·01	0·14	0·46		7
8	0·35	0·19	0·38	0·07	–	–	0·65	0·14	–	0·16	0·42	0·58		8
9	0·14	0·53	0·01	–	–	–	0·04	0·86	–	0·53	0·03	0·62		9
10	0·15	0·04	0·03	–	–	0·25	–	0·03	0·67	0·36	0·02	0·27		10
11	0·43	0·09	0·30	–	–	0·33	–	0·03	0·02	–	–	–		11
12	0·34	0·26	–	–	–	0·06	–	–	0·01	–	0·01	–		12
13	0·02	–	0·01	0·29	0·13	0·28	0·24	–	0·02	–	0·02	–		13
14	1·03	–	–	0·20	0·84	0·79	0·56	–	–	–	0·48	–		14
15	0·16	0·10	–	0·92	0·02	1·21	0·52	–	–	–	0·19	–		15
16	0·20	–	0·05	0·09	0·46	–	0·02	–	–	0·10	0·16	–		16
17	0·74	0·48	–	0·02	0·20	0·05	–	–	–	0·37	0·11	–		17
18	0·06	0·38	0·05	–	–	0·16	0·49	–	–	–	0·79	–		18
19	0·28	–	–	–	–	0·01	0·51	–	0·01	–	0·01	–		19
20	0·11	–	0·03	–	0·01	0·12	0·56	0·13	0·02	–	–	–		20
21	0·18	0·14	0·71	0·16	0·03	–	0·28	0·68	0·02	–	–	–		21
22	0·21	0·40	0·21	0·05	–	–	0·09	–	–	0·03	0·91	–		22
23	0·01	0·67	0·04	0·42	–	0·03	0·02	–	–	0·64	0·17	0·04		23
24	–	0·23	–	0·05	–	0·01	0·05	–	–	0·03	0·02	–		24
25	0·16	0·22	0·01	0·02	–	–	–	–	–	–	1·76	0·02		25
26	0·01	0·02	–	–	–	–	–	0·41	–	0·12	0·93	–		26
27	0·01	1·54	0·09	–	–	0·48	0·11	0·07	–	0·02	0·42	0·08		27
28	0·01	0·27	0·12	–	–	0·40	1·09	–	–	–	1·08	–		28
29	–	✕	0·01	–	–	0·01	1·78	–	–	0·07	0·20	–		29
30	–	✕	–	–	–	0·12	0·36	–	–	0·01	0·71	–		30
31	–	✕	–	✕	–	✕	0·18	0·06	✕	–	✕	–		31
TOTAL	6·77	6·19	2·94	3·62	2·25	4·31	9·99	3·38	1·63	3·13	9·22	4·03	Year's Total 57·46	
* Days with .01 in. or more.	~~26~~	~~20~~	~~19~~	~~16~~	~~9~~	~~16~~	~~24~~	~~15~~	~~10~~	~~19~~	~~26~~	~~12~~	~~210~~	
* Days with .04 in. or more.	~~20~~	~~17~~	~~12~~	~~13~~	~~5~~	~~12~~	~~21~~	~~10~~	~~3~~	~~11~~	~~19~~	~~10~~	~~153~~	

WATERWORKS ENGINEER
BOLTON
REF.
10 JAN 1940

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) .... [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2881

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1940.

Kept at Bolton W.W., Entwistle

in the County of S. Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 700 ft.

TRAVELLING FORM.

VALUES FORWARDED MONTHLY

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	–	–	–	0·41	–	–	0·02	–	0·01	–	0·94	0·41		1
2	–	–	–	0·27	–	–	0·25	–	–	–	0·80	0·30		2
3	0·02	0·18	0·01	0·33	–	–	0·36	–	–	0·03	0·05	0·27		3
4	–	0·14	–	0·12	–	–	0·16	–	–	0·34	0·19	0·51		4
5	–	0·04	–	–	0·09	–	0·11	–	0·01	0·92	0·03	0·52		5
6	0·11	0·28	–	–	–	–	0·03	–	–	0·45	0·04	0·16		6
7	0·12	0·34	–	0·32	0·07	–	0·31	0·28	0·23	0·06	0·02	0·02		7
8	0·01	–	0·06	0·08	–	–	0·01	0·09	–	0·40	0·08	0·37		8
9	–	–	0·24	–	–	–	0·95	0·41	0·64	1·00	1·83	0·39		9
10	–	–	0·08	–	–	–	0·43	0·45	0·01	0·18	0·60	0·64		10
11	–	0·01	0·16	0·14	–	0·02	0·16	–	0·01	–	1·95	–		11
12	–	–	0·35	–	–	0·10	0·15	0·08	0·73	–	0·36	–		12
13	–	0·02	0·10	–	–	–	–	0·07	0·69	–	0·25	0·06		13
14	–	0·11	0·05	0·48	0·13	–	0·02	0·18	0·44	–	0·15	0·70		14
15	0·01	0·01	0·06	0·04	0·07	0·08	–	–	0·09	–	0·15	0·09		15
16	0·05	0·05	0·17	0·13	–	–	0·20	–	1·58	0·31	0·04	0·26		16
17	–	–	0·63	0·02	0·08	–	0·80	–	0·31	–	0·79	0·03		17
18	0·06	0·15	0·15	0·41	–	–	0·04	0·40	0·27	–	0·01	0·50		18
19	–	0·27	0·37	0·04	–	–	0·42	–	0·35	0·01	0·27	0·01		19
20	–	0·01	0·11	0·28	–	–	0·40	0·54	0·22	0·25	0·20	–		20
21	–	0·01	0·31	0·07	–	0·33	0·18	0·02	–	0·03	0·87	–		21
22	–	0·04	0·06	–	0·13	0·09	0·01	0·08	0·29	–	–	–		22
23	–	0·25	0·03	0·18	0·02	–	0·15	–	0·16	–	0·12	–		23
24	0·68	0·01	0·01	–	0·02	–	0·11	–	0·04	0·04	–	0·02		24
25	0·05	–	–	–	0·01	0·03	0·14	–	–	0·02	–	–		25
26	0·71	0·30	–	–	0·03	0·18	0·03	–	–	–	0·06	–		26
27	*1·25	*0·90	–	0·04	–	–	0·33	–	0·01	–	0·16	–		27
28	*0·75	*0·33	–	–	0·16	–	–	0·25	–	–	0·01	0·15		28
29	–	–	0·53	0·01	–	0·32	0·06	–	–	0·03	–	1·17		29
30	–	×	–	0·05	–	–	–	–	–	0·64	0·04	0·40		30
31	0·04	×	0·11	×	0·03	×	–	0·11	×	1·26	×	0·02		31
													Year's Total	
TOTAL	3·86	3·45	3·59	3·42	0·84	1·15	5·83	2·96	6·09	5·97	10·01	7·00	54·17	
* Days with .01 in. or more.	13	20	20	19	12	8	26	13	19	17	26	22	215	
* Days with .04 in. or more.	10	14	17	17	7	6	20	12	14	12	22	17	168	

Ref

WATERWORKS ENGINEER

BOLTON

*Estimated.

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(Signed) .... [P.T.O.

2882

FORM 1090. **B** M
S

—

2882

BOLTON, BROMLEY HEYS W.W.

1931 — 40

780502

*** **The following register of mont**
&c., is NOT required if daily
values are given on the other

and also the space for

gister should be sent:—

RAINFALL IN 1931

At Bolton W.W. Bromley
In the County of S. Lancas
Rain Gauge
Diameter of Funnel 5
Height of Top above Ground 1 *ft.*
Height of Ground above Sea Level

in Summer
Direction from gauge
Direction from gauge

Month.	Total Depth.	Greatest Fall in 24 hours.			
	Inches.	Inches.	Date.		
JAN.	9·26				
FEB.	6·30				
MAR.	·85				
APRIL	4·77				
MAY	2·70				
JUNE	7·99				
JULY	5·98				
AUG.	6·50				
SEPT.	5·29				
OCT.	3·67				
NOV.	10·14				
DEC.	3·87				
Total	67·32				

Directions from gauge . .

Signature Bolton Corporation W.W.
per J. P. Ainsworth

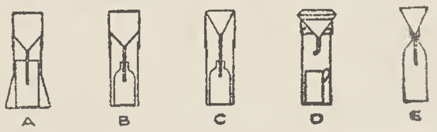
*See Instruction 2 (*f*) below.

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B.**)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090.

2882

B M
Summary.

C Particulars of Station.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1931

At Bolton W.W. Bromiley Heys
In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft* 0 *in.*
Height of Ground above Sea Level 925 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	9·26				
FEB.	6·30				
MAR.	·85				
APRIL	4·77				
MAY	2·70				
JUNE	7·99				
JULY	5·98				
AUG.	6·50				
SEPT.	5·29				
OCT.	3·67				
NOV.	10·14				
DEC.	3·87				
Total	67·32				

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter............ in Summer............

Nearest Railway Station............ Distance............ Direction from gauge............

Nearest Parish Church at............ Distance............ Direction from gauge............

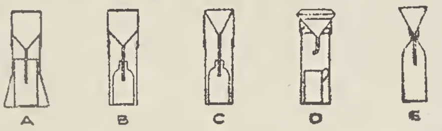
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move............ Distance............ Direction............

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090.

2882

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1932

At Bromiley Heys

In the County of Lancs

Rain Gauge
- Diameter of Funnel .... in.
- *Height of Top above Ground* .... *ft* .... *in.*
- *Height of Ground above Sea Level* .... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6.45				
FEB.	.18				
MAR.	4.16				
APRIL	4.52				
MAY	5.14				
JUNE	1.14				
JULY	6.23				
AUG.	1.68				
SEPT.	8.28				
OCT.	10.38				
NOV.	4.25				
DEC.	2.36				
Total	54.77				

Signature Bolton WW.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:— ....

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:— ....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

Copy by B.R.O.

16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{l}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2882

FORM 1090.

B Monthly Summary.

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1933.

At Bolton W.W., Bromiley Hey

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 925 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3.89				
FEB.	4.90				
MAR.	3.83				
APRIL	2.53				
MAY	2.91				
JUNE	3.73				
JULY	4.23				
AUG.	4.37				
SEPT.	1.03				
OCT.	5.71				
NOV.	3.33				
DEC.	.88				
Total	41.34				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

M.O. 7
24 JAN 1934

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2882

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Bromiley Heys

In the County of S Lancs

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft* 0 *in.*

Height of Ground above Sea Level 925 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4.58				
FEB.	0.55				
MAR.	3.00				
APRIL	3.57				
MAY	5.03				
JUNE	2.82				
JULY	3.14				
AUG.	7.29				
SEPT.	4.64				
OCT.	8.45				
NOV.	3.09				
DEC.	7.77				
Total	53.93				

✓

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

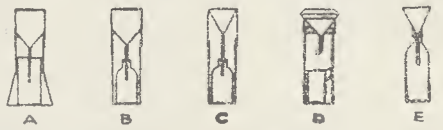
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 / 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

NO 7
[illegible] 1935

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(506) Wt.24107/1845 15000 3/33. Gp. 119/110.

2882

FORM 1090. **B** Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W. Bromiley Hays

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft* = *in.*
Height of Ground above Sea Level 925 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4·85				
FEB.	7·67				
MAR.	2·00				
APRIL	4·89				
MAY	1·42				
JUNE	4·44				
JULY	2·80				
AUG.	2·38				
SEPT.	9·46				
OCT.	11·81				
NOV.	6·11				
DEC.	5·41				
Total	63·24				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 3¼ mls Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1¼ mls Direction from gauge S.S.E.

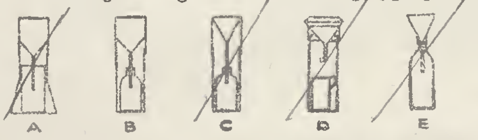
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in British Rainfall, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
17 JAN. 1936
REF.....
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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M

2882

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936.

At Bolton W.W., Bromiley Heys

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft* 0 *in.*

Height of Ground above Sea Level 925 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·19 ✓				
FEB.	3·13 ✓				
MAR.	3·98 ✓				
APRIL	1·28 ✓				
MAY	1·55 ✓				
JUNE	5·15 ✓				
JULY	6·85 ✓				
AUG.	3·68 ✓				
SEPT.	5·80 ✓				
OCT.	6·53 ✓				
NOV.	8·15 ✓				
DEC.	6·36 ✓				
Total	58·65 ✓				

Signature John Ainsworth

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr John P. Ainsworth, B.Sc., M.Inst.C.E., Waterworks Engr., St George's Sq., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 3¼ mls. Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1¼ mls. Direction from gauge S.S.E.

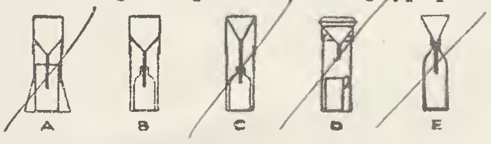
Nature of objects nearest to gauge				
Height of objects				
Distances				
Directions from gauge				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}$ ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2882

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.*

RAINFALL IN 1937

At Bolton W.W., Bromiley Heys
In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* – *in.*
Height of Ground above Sea Level 925 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·25				
FEB.	6·70				
MAR.	2·31				
APRIL	5·22				
MAY	2·59				
JUNE	2·63				
JULY	2·73				
AUG.	3·36				
SEPT.	2·33				
OCT.	2·71				
NOV.	2·33				
DEC.	2·95				
TOTAL	40·12				

Signature ....

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

*See Instruction 2 *(f)* below.

C Particulars of Station

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 3¼ mls Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1¼ mls Direction from gauge S.S.E.

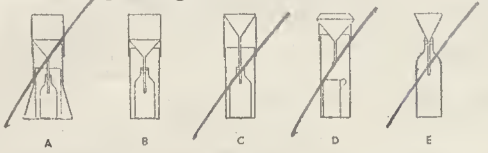
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move.................................... Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2882

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W., Bromiley Hays

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 925 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·53				
FEB.	2·27				
MAR.	3·06				
APRIL	0·97				
MAY	6·10				
JUNE	6·11				
JULY	6·87				
AUG.	5·27				
SEPT.	3·69				
OCT.	11·50				
NOV.	7·93				
DEC.	5·97				
TOTAL	66·27				

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :— Mr. John P. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 3¼ mls Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1¼ mls Direction from gauge S.S.E.

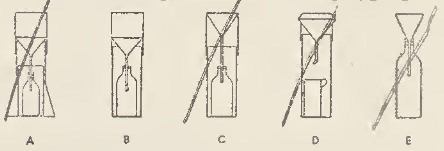
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move........ Distance........ Direction........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B.**)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

WATERWORKS ENGINEER
12 JAN 1939
REF.........
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt.1046/3030. 26,000. 4/36. W. H. & S. 668/91. S.O. Code No. 40-9999

2882

FORM 1090.

B Monthly Summary.

. The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939.

At Bolton W.W., Bromiley Hays

In the County of S. Lancashire.

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 ft. 0 in.
- *Height of Ground above Sea Level* 925 ft.

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·04	✓			
FEB.	6·03	✓			
MAR.	2·98	✓			
APRIL	3·72	✓			
MAY	1·94	✓			
JUNE	4·56	✓			
JULY	9·29	✓			
AUG.	3·17	✓			
SEPT.	1·91	✓			
OCT.	2·95	✓			
NOV.	9·13	✓			
DEC.	3·68	✓			
TOTAL	55·40	✓			

Signature John A. Ainsworth

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :— John A. Ainsworth, B.Sc., M.Inst.C.E., Waterworks Engineer, Town Hall, Bolton

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 3¼ mls Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1¼ mls Direction from gauge S.S.E.

Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move........ Distance........ Direction........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

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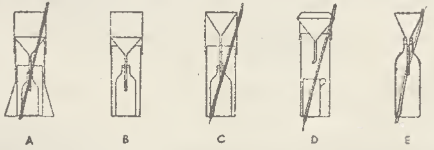

If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

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  (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2882✓

FORM 1090.

B Monthly Summary.

. The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1940

At Bolton W.W., Bromley Heys

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 925 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*(3·80)				
FEB.	*(3·65)				
MAR.	3·81 ✓				
APRIL	3·88 ✓				
MAY	0·98 ✓				
JUNE	1·33 ✓				
JULY	8·09 ✓				
AUG.	4·52 ✓				
SEPT.	6·18 ✓				
OCT.	5·46				
NOV.	9·01 ✓				
DEC.	7·15 ✓				
TOTAL	(57·86) ✓				

*Estimated.

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

WATERWORKS ENGINEER
15 JAN 1941
Ref
BOLTON

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 am in Summer 9 am

Nearest Railway Station Spring Vale Distance 3¼ mls Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1¼ mls Direction from gauge S.S.E.

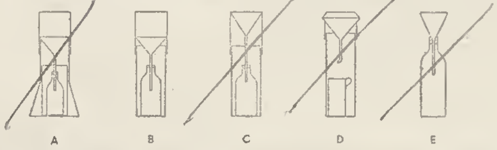
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2883

FORM 1090. **B** Mon
Sum

2883

BOLTON, HULTON PASTURE W.W.

1931 —— 40

780502

*** The following register of monthly
&c., is NOT required if daily or
values are given on the other sid

d also the space for

ter should be sent:—

RAINFALL IN 1931

* At Bolton W.W. Hulton

In the County of S. Lancashi

Rain Gauge
Diameter of Funnel 5
Height of Top above Ground 1 *ft.*
Height of Ground above Sea Level 11

n Summer

Direction from gauge

Direction from gauge

Directions from gauge ..

Month.	Total Depth.	Greatest Fall in 24 hours.		Num Day ·01 in or mor	
	Inches.	Inches.	Date.	*	
JAN.	6.76				
FEB.	4.83				
MAR.	.73				
APRIL	4.19				
MAY	2.81				
JUNE	7.14				
JULY	5.08				
AUG.	6.45				
SEPT.	5.17				
OCT.	3.19				
NOV.	9.63				
DEC.	2.94				
Total	58.92				
	Inches				

Signature Bolton Corporation W.W.
per J.P. Ain[illegible]orth

*See Instruction 2 (*f*) below.

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

* Gauge overexposed prior to Jan. 1929. from which date there has been erected round the gauge a standard turf wall 10 ft. dia. the top of which is level a 6 in. above the lip of gauge.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

2883

FORM 1090. **B** Mo
Sun

** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1931

*At Bolton W.W. Hulton Pasture

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 1130 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6·76				
FEB.	4·83				
MAR.	·73				
APRIL	4·19				
MAY	2·81				
JUNE	7·14				
JULY	5·08				
AUG.	6·45				
SEPT.	5·17				
OCT.	3·19				
NOV.	9·63				
DEC.	2·94				
Total	58·92				

Signature Bolton Corporation W.W.
per J.P. Ains[illegible]orth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

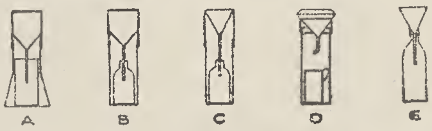
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B.**)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

*Gauge overexposed prior to Jan. 1929. from which date there has been erected round the gauge a standard turf wall 10 ft. dia. the top of which is level & 6 in. above the lip of gauge.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{l}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090.

2883

B Monthly Summary.

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1932

At Hulton Pasture

In the County of Lancs.

Rain Gauge
Diameter of Funnel............in.
Height of Top above Ground.........*ft*.........*in*.
Height of Ground above Sea Level.........*ft*.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	5·53				
FEB.	·20				
MAR.	3·78				
APRIL	3·97				
MAY	5·19				
JUNE	1·17				
JULY	5·67				
AUG.	1·74				
SEPT.	7·13				
OCT.	8·96				
NOV.	4·01				
DEC.	2·36				
Total	49·71				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter............in Summer............

Nearest Railway Station............Distance............Direction from gauge............

Nearest Parish Church at............Distance............Direction from gauge............

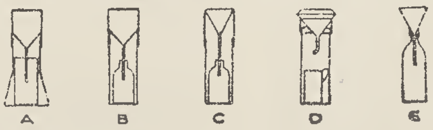
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move............Distance............Direction............

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

Copy by B.R.O.
16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933.

At Hulton Pasture

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 1130 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·43				
FEB.	4·39				
MAR.	3·70				
APRIL	2·52				
MAY	2·79				
JUNE	3·15				
JULY	3·79				
AUG.	3·61				
SEPT.	1·12				
OCT.	5·24				
NOV.	3·06				
DEC.	·82				
Total	37·62				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

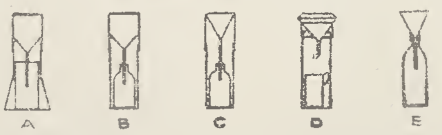
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list.

Turf wall round gauge.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

M.O. 7
JAN 1934

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2883

FORM 1090. **B** Monthly Summary.

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1934

At Hulton Pasture

In the County of S Lancs

Rain Gauge:
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 1130 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4·27				
FEB.	0.49				
MAR.	3·10				
APRIL	3·44				
MAY	4·49				
JUNE	2·60				
JULY	2·40				
AUG.	6·78				
SEPT.	4·47				
OCT.	4·02				
NOV.	2·93				
DEC.	8·46				
Total	50·45 ✓				

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances				
Directions from gauge				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2883

FORM 1090. **B** Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935.

At Bolton W.W., Hulton Pasture

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* = *in.*
- *Height of Ground above Sea Level* 1130 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01in or more	·04 in. or more
	Inches	Inches	Date	*	*
✓JAN,	3·50				
FEB.	6·14				
MAR.	1·66				
APRIL	4·23				
MAY	1·76				
JUNE	4·15				
✓JULY	2·22				
AUG.	2·06				
SEPT.	8·45				
OCT.	9·62				
NOV.	5·87				
DEC.	5·17				
Total	54·83				

Signature John P Ainsworth

WATERWORKS ENGINEER
17 JAN. 1936
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2½ mls. Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1½ mls. Direction from gauge S.

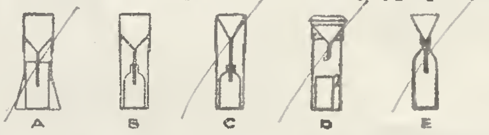
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\ \cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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M

2883

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W. Hulton Pasture

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 1130 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·91				
FEB.	3·29				
MAR.	3·76				
APRIL	1·38				
MAY	1·73				
JUNE	5·14				
JULY	6·31				
AUG.	3·36				
SEPT.	5·41				
OCT.	5·48				
NOV.	7·35				
DEC.	5·14				
Total	54·26				

Signature John A. Ainsworth

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr John A. Ainsworth, B.Sc., M.Inst.C.E., Waterworks Engr., St George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2½ mls Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1½ mls Direction from gauge S.

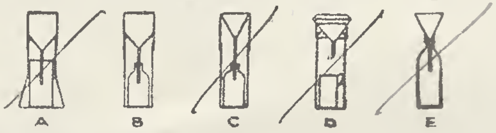
Nature of objects nearest to gauge				
Height of objects				
Distances				
Directions from gauge				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

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9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

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2883

FORM 1090.

B Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937

At Bolton W.W., Hutton Pasture

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 1130 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·89				
FEB.	6·35				
MAR.	2·46				
APRIL	4·97				
MAY	2·61				
JUNE	2·50				
JULY	2·78				
AUG.	3·48				
SEPT.	2·20				
OCT.	2·97				
NOV.	2·41				
DEC.	4·17				
TOTAL	40·79				

Signature John [illegible]

WATERWORKS ENGINEER
12 JAN 1938
REF.........
BOLTON

*See Instruction 2 (*f*) below.

C

TRAVELLING FORM.
~~Particulars of Station,~~
VALUES FORWARDED MONTHLY

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2½ mls. Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1½ mls. Direction from gauge S.

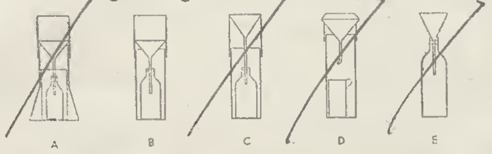
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move.............................. Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

- (a) It is known that the gauge was empty at the beginning of the measured rainfall?
- (b) What note was made of the times of beginning and end of this fall?
- (c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

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(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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Wt.3430/1699 15,000 2/35 W. H. & S. 668/91.

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is **NOT** required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W., Hulton Pasture

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 ft. — in.
Height of Ground above Sea Level 1130 ft.

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·45				
FEB.	1·99				
MAR.	2·23				
APRIL	0·79				
MAY	5·57				
JUNE	5·57				
JULY	6·17				
AUG.	4·29				
SEPT.	3·59				
OCT.	9·45				
NOV.	7·05				
DEC.	5·71				
TOTAL	57·86				

Signature John D. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr John D. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2½ mls Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1½ mls Direction from gauge S.

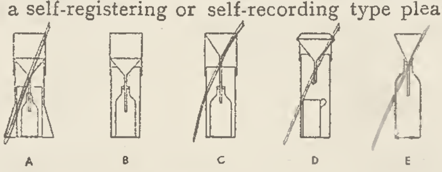
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1939
REF.........
BOLTON

TRAVELLING FORM
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
- (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
- (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt.1046/3030. 26,000. 4/36. W. H. & S. 668/91. S.O. Code No. 40-9999

2883

FORM 1090.

B Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939

At Bolton W.W., Hulton Pasture

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 1130 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·63	✓			
FEB.	5·19	✓			
MAR.	2·68	✓			
APRIL	3·30	✓			
MAY	1·96	✓			
JUNE	4·40	✓			
JULY	8·68	✓			
AUG.	3·35	✓			
SEPT.	1·88	✓			
OCT.	3·16	✓			
NOV.	8·35	✓			
DEC.	3·37	✓			
TOTAL	52·95				

Signature John P. Ainsworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2½ mls Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1½ mls Direction from gauge S.

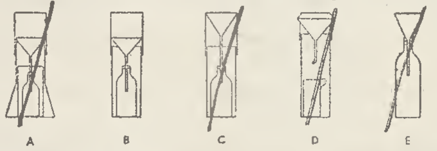
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move.......... Distance.......... Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
10 JAN 1940
REF. ....
BOLTON

TRAVELLING FOR
VALUES FORWARDED MONT

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

2883 ✓

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 19~~3~~40.

At Bolton W.W., Hulton Pasture

In the County of S. Lancashire

Rain Gauge:
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1130 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*(3·70)				
FEB.	*(3·60)				
MAR.	3·67 ✓				
APRIL	3·25 ✓				
MAY	0·93 ✓				
JUNE	1·15 ✓				
JULY	7·05 ✓				
AUG.	3·43 ✓				
SEPT.	5·33 ✓				
OCT.	5·11				
NOV.	8·61 ✓				
DEC.	6·32 ✓				
TOTAL	(52·15) ✓				

*Estimated.

Signature John P. Ainsworth

* See Instruction 3 *(f)* below

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

John P. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2½ miles Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 1½ miles Direction from gauge S.

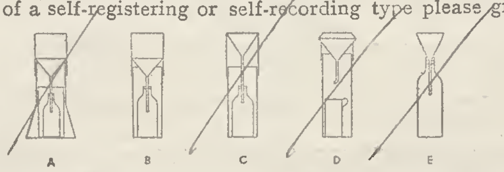
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move.................. Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM.
VALUES FORWARDED MONTHLY.

WATERWORKS ENGINEER
15 JAN 1941
Ref.
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005 ; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17, 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

2884

BOLTON, MOORSIDE W.W.

1931 —— 40

780502

2884

FORM 1090. **B** Mo Su

*** The following register of month … and also the space for &c., is NOT required if daily … values are given on the other s … gister should be sent:—

RAINFALL IN 193

* At Bolton W.W. Moors

In the County of S. Lanca

..in Summer

Rain Gauge
Diameter of Funnel 5
Height of Top above Ground 1 *ft.*
Height of Ground above Sea Level 9

Direction from gauge

Direction from gauge

Month.	Total Depth.	Greatest Fall in 24 hours.		N D ·01 or	
	Inches.	Inches.	Date.		
JAN.	7·54				
FEB.	7·13				
MAR.	·83				
APRIL	4·34				
MAY	3·35				
JUNE	6·43				
JULY	5·43				
AUG.	5·88				
SEPT.	5·78				
OCT.	3·24				
NOV.	10·00				
DEC.	3·15				
Total	63·10				

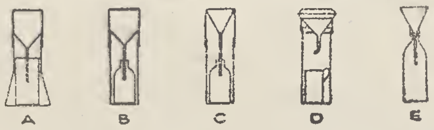
Directions from gauge ..

If gauge has been moved during the year state—

Date of move ……… Distance ……… Direction ………

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

* Gauge over exposed prior to Jan. 1929. from which date there has been erected a turf wall 10 ft. dia. round the gauge, the top of which is level & 6 ins. above the lip of gauge.

Signature Bolton Corporation W.W.
per J.P. Ainsworth

*See Instruction 2 (*f*) below.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{l}17\\18\end{array}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02, *or* 0·3.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

FORM 1090.

2884

B Me
Summary.

C Particulars of Station.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1931

*

At Bolton W.W. Moorside

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 850 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	7·54				
FEB.	7·13				
MAR.	·83				
APRIL	4·34				
MAY	3·35				
JUNE	6·43				
JULY	5·43				
AUG.	5·88				
SEPT.	5·78				
OCT.	3·24				
NOV.	10·00				
DEC.	3·15				
Total	63·10				

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

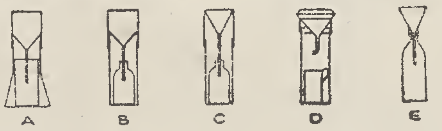
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

* Gauge over exposed prior to Jan. 1929. from which date there has been erected a turf wall 10 ft. dia. round the gauge, the top of which is level & 6 ins. above the lip of gauge.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2884

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1932

At Moorside

In the County of Lancs

Rain Gauge
- Diameter of Funnel .... in.
- *Height of Top above Ground* .... *ft* .... *in.*
- *Height of Ground above Sea Level* .... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6·49				
FEB.	·23				
MAR.	3·85				
APRIL	4·53				
MAY	5·56				
JUNE	1·04				
JULY	5·00				
AUG.	2·03				
SEPT.	7·35				
OCT.	8·95				
NOV.	4·54				
DEC.	3·04				
Total	52·61				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

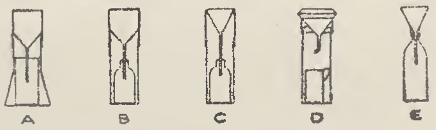
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

Copy by B.R.O.

16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2884

FORM 1090. **B** Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933

At Bolton W.W., Moorside

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft* 0 *in.*

Height of Ground above Sea Level 850 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3.84				
FEB.	5.12				
MAR.	3.25				
APRIL	2.33				
MAY	2.28				
JUNE	2.73				
JULY	3.33				
AUG.	2.93				
SEPT.	1.01				
OCT.	5.85				
NOV.	3.05				
DEC.	.84				
Total	36.56				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

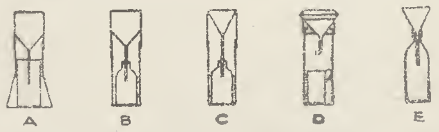
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list.
Turf wall round gauge.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

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2884

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Moorside

In the County of S. Lancs

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 850 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4·64				
FEB.	0·42				
MAR.	3·54				
APRIL	3·13				
MAY	4·53				
JUNE	3·24				
JULY	2·43				
AUG.	4·94				
SEPT.	4·94				
OCT.	7·12				
NOV.	2·61				
DEC.	8·38				
Total	49·92				

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

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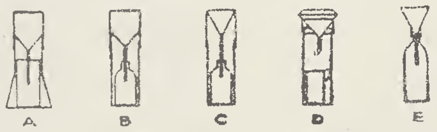

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet

D INSTRUCTIONS.

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2884

FORM 1090.

B Monthly Summary.

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RAINFALL IN 1935

At Bolton W.W., Mooreside

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* = *in.*
- *Height of Ground above Sea Level* 850 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·70				
FEB.	7·01				
MAR.	1·73				
APRIL	4·02				
MAY	1·58				
JUNE	4·74				
JULY	2·15				
AUG.	1·94				
SEPT.	8·80				
OCT.	9·20				
NOV.	5·57				
DEC.	4·71				
Total	55·15				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance ¾ mls. Direction from gauge W. by S.

Nearest Parish Church at Turton Distance 1⅝ mls. Direction from gauge S. by W.

Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

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If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

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(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
17 JAN. 1936
REF.
BOLTON

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(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2884

FORM 1090.

B Monthly Summary.

**The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W., Moorside

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 850 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·98 ✓				
FEB.	3·37 ✓				
MAR.	4·04 ✓				
APRIL	1·00 ✓				
MAY	1·43 ✓				
JUNE	4·74 ✓				
JULY	5·00 ✓				
AUG.	3·62 ✓				
SEPT.	5·33 ✓				
OCT.	5·39 ✓				
NOV.	7·27 ✓				
DEC.	5·58 ✓				
Total	52·75 ✓				

Signature John Ainsworth

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:— Mr John F. Ainsworth, B.Sc., M.Inst.C.E., Waterworks Engr., St George's St, Bolton

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 7/8 ml. Direction from gauge W.S.W.

Nearest Parish Church at Turton Distance 1¾ mls. Direction from gauge S.

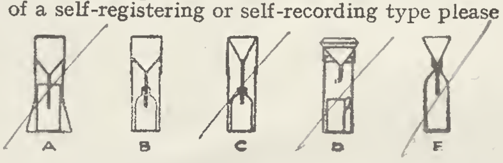
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{c}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2884

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is **NOT** required if daily or weekly values are given on the other side.

RAINFALL IN 1937

At Bolton W.W., Moorside

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* — *in.*
Height of Ground above Sea Level 850 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·47				
FEB.	6·76				
MAR.	2·42				
APRIL	4·73				
MAY	2·08				
JUNE	2·32				
JULY	2·47				
AUG.	3·13				
SEPT.	2·27				
OCT.	2·76				
NOV.	2·62				
DEC.	3·48				
TOTAL	39·51				

Signature John [illegible]

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance ⅞ ml. Direction from gauge W.S.W.

Nearest Parish Church at Turton Distance 1¾ mls. Direction from gauge S.

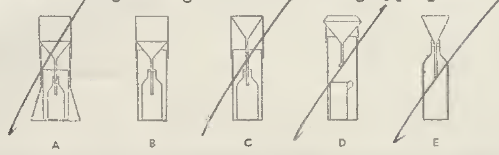
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move.................. Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2884

FORM 1090.

B Monthly Summary.

. The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W., Moorside

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* - *in.*
- *Height of Ground above Sea Level* 850 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	✓6·52				
FEB.	2·28 ✓				
MAR.	1·83 ✓				
APRIL	0·78 ✓				
MAY	4·72 ✓				
JUNE	5·62 ✓				
JULY	5·73 ✓				
AUG.	3·19 ✓				
SEPT.	2·52 ✓				
OCT.	11·64 ✓				
NOV.	7·52 ✓				
DEC.	5·98 ✓				
TOTAL	58·33 ✓				

Signature John P. Ainsworth

WATERWORKS ENGINEER
12 JAN 1939
REF. ....
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHL

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :— Mr John P. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2/8 mls Direction from gauge W.S.W.

Nearest Parish Church at Turton Distance 1 3/4 mls Direction from gauge S

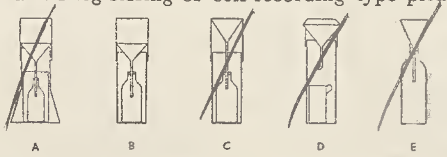
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move.......... Distance.......... Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2884

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939.

At Bolton W.W. Mooriside

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 850 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·77 ✓				
FEB.	5·63 ✓				
MAR.	2·77 ✓				
APRIL	3·07 ✓				
MAY	2·33 ✓				
JUNE	4·18 ✓				
JULY	9·13 ✓				
AUG.	2·98 ✓				
SEPT.	1·67 ✓				
OCT.	2·61 ✓				
NOV.	6·55 ✓				
DEC.	3·60 ✓				
TOTAL	51·29 ✓				

Signature John S. Ainsworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John S. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 7/8 ml. Direction from gauge W.S.W.

Nearest Parish Church at Turton Distance 1 3/4 mls. Direction from gauge S.

Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state —

Date of move .... Distance .... Direction ....

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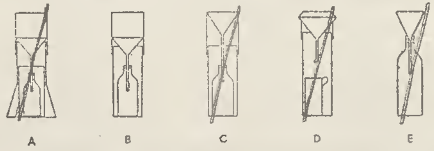

If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

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9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005 ; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

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(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

2884

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 19~~3~~40

At Bolton W.W. Moorside

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 850 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*3·00				
FEB.	*2·90				
MAR.	3·45				
APRIL	3·19				
MAY	0·83				
JUNE	1·06				
JULY	5·11				
AUG.	2·39				
SEPT.	5·92				
OCT.	5·58				
NOV.	9·45				
DEC.	6·44				
TOTAL	49·32				

*Estimated.

Signature John D. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John D. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 7/8 ml. Direction from gauge W.S.W.

Nearest Parish Church at Turton Distance 1 3/4 mls. Direction from gauge S.

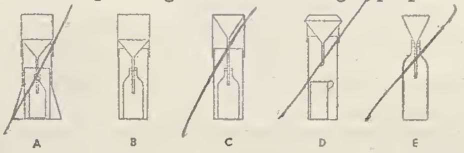
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move.......... Distance.......... Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

WATERWORKS ENGINEER
JAN 1941
Ref. BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was .14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

2885

FORM 1090. **B** Mo
Su

2885

BOLTON, CLOUGH W.W. NO2
1931 —— 40

780502

*** The following register of month
&c., is NOT required if daily o
values are given on the other si

RAINFALL IN 1931

At Bolton W.W. Clough
In the County of S. Lancas
Rain Gauge
Diameter of Funnel 5
Height of Top above Ground 1 *ft.* 0
Height of Ground above Sea Level 1

Month.	Total Depth.	Greatest Fall in 24 hours.		Nu De ·01 or m	
	Inches.	Inches.	Date.		
JAN.	8·30				
FEB.	6·91				
MAR.	·82				
APRIL	4·40				
MAY	2·98				
JUNE	7·28				
JULY	6·02				
AUG.	6·98				
SEPT.	5·18				
OCT.	3·74				
NOV.	10·25				
DEC.	4·02				
Total	66·88				

Signature Bolton Corporation W.W.
per. J. P. Ainsworth

*See Instruction 2 (*f*) below.

nd also the space for

ister should be sent:—

.in Summer

Direction from gauge

Direction from gauge

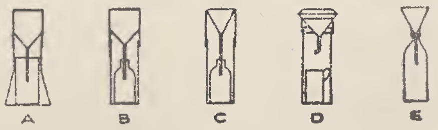
Directions from gauge ..

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2885

FORM 1090. **B** Mo
Summary.

C Particulars of Station.

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1931

At Bolton W.W. Clough No 2

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 1025 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	8·30				
FEB.	6·91				
MAR.	·82				
APRIL	4·40				
MAY	2·98				
JUNE	7·28				
JULY	6·02				
AUG.	6·98				
SEPT.	5·18				
OCT.	3·74				
NOV.	10·25				
DEC.	4·02				
Total	66·88				

Signature Bolton Corporation W.W.
per. J.P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

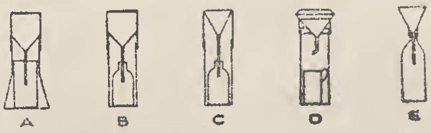
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090. **B** Monthly Summary.

C Particulars of Station.

2885

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1932

At Clough

In the County of Lancs.

Rain Gauge
Diameter of Funnel............in.
Height of Top above Ground............ft............in.
Height of Ground above Sea Level............ft.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	7·05				
FEB.	·22				
MAR.	4·39				
APRIL	4·82				
MAY	5·75				
JUNE	1·33				
JULY	5·52				
AUG.	1·72				
SEPT.	8·94				
OCT.	10·32				
NOV.	4·78				
DEC.	2·92				
Total	57·76				

Signature Bolton Corp WW.

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter............in Summer............

Nearest Railway Station............ Distance............ Direction from gauge............

Nearest Parish Church at............ Distance............ Direction from gauge............

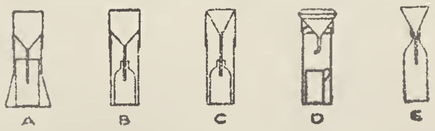
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move............ Distance............ Direction............

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

Copy by B.R.O.
16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2885

FORM 1090. **B** Monthly Summary.

***** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1933

At Bolton W.W. Clough

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 1025 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3.93				
FEB.	4.85				
MAR.	3.82				
APRIL	2.65				
MAY	2.65				
JUNE	3.87				
JULY	4.31				
AUG.	4.03				
SEPT.	1.21				
OCT.	5.95				
NOV.	3.07				
DEC.	.83				
Total	41.17				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C **Particulars of Station.**

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you **know** of any **record of rainfall** not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

M.O.7
24 JAN 1934

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2885

FORM 1090. **B** Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Clough

In the County of E Lancs.

Rain Gauge:
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1025 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4·93				
FEB.	0·02				
MAR.	3·62				
APRIL	3·43				
MAY	5·66				
JUNE	2·42				
JULY	2·43				
AUG.	7·17				
SEPT.	5·06				
OCT.	8·32				
NOV.	3·17				
DEC.	8·96				
Total	55·79 ~~56·39~~				

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:— Bolton Corporation

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

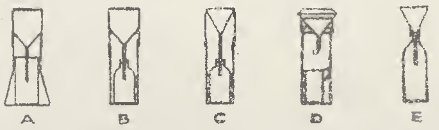
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheets.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r|}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(506) Wt.24107/1845 15000 3/33. Gp. 119/110.

2885

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W., Clough No 2.

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* = *in.*
- *Height of Ground above Sea Level* 1025 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·28				
FEB.	7·70				
MAR.	2·09				
APRIL	4·46				
MAY	1·60				
JUNE	3·94				
JULY	2·58				
AUG.	2·38				
SEPT.	8·92				
OCT.	12·92				
NOV.	6·24				
DEC.	5·12				
Total	61·23				

Signature John D. Ainsworth.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Mr. John D. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 1¾ mls. Direction from gauge N.N.E.

Nearest Parish Church at Belmont Distance 2 mls. Direction from gauge S.S.W.

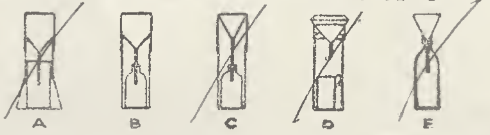
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
17 JAN. 1936
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}$ ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2885

FORM 1090. **B** Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W. Clough No. 2

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 1025 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·73 ✓				
FEB.	2·91 ✓				
MAR.	4·58 ✓				
APRIL	1·33 ✓				
MAY	1·11 ✓				
JUNE	6·02 ✓				
JULY	6·69 ✓				
AUG.	3·70 ✓				
SEPT.	6·02 ✓				
OCT.	7·28 ✓				
NOV.	8·30 ✓				
DEC.	6·15 ✓				
Total	59·82 ✓				

Signature John F. Ainsworth

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John F. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engr., St George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 1¾ mls Direction from gauge N.N.E.

Nearest Parish Church at Belmont Distance 2 mls Direction from gauge S.S.W.

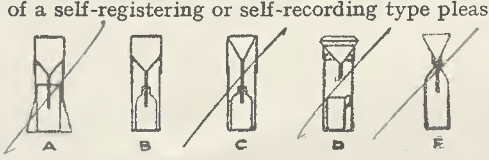
Nature of objects nearest to gauge				
Height of objects				
Distances				
Directions from gauge				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{l}17\\18\end{array}\right\}$ ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is* "*trace*". *The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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TRAVELLING FORM.

VALUES FORWARDED MONTHLY

2885

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937

At Bolton W.W., Clough ~~No 2~~

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 1150 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·64				
FEB.	6·83				
MAR.	2·22				
APRIL	5·45				
MAY	2·54				
JUNE	2·84				
JULY	3·10				
AUG.	3·78				
SEPT.	2·50				
OCT.	2·72				
NOV.	2·23				
DEC.	3·18				
TOTAL	42·03				

Signature John P. Ainsworth

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station,

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 1¾ mls Direction from gauge N.N.E.

Nearest Parish Church at Belmont Distance 2 mls Direction from gauge S.S.W.

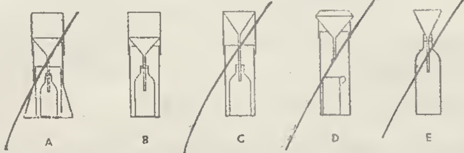
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

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(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

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(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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Wt.3430/1699 15,000 2/35 W. H. & S. 668/91.

2885

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W. Clough No 2

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 1150 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·73				
FEB.	*2·75				
MAR.	2·63				
APRIL	0·60				
MAY	5·52				
JUNE	6·41				
JULY	6·87				
AUG.	3·77				
SEPT.	3·48				
OCT.	12·48				
NOV.	8·55				
DEC.	6·44				
TOTAL	66·23				

Signature John P. Ainsworth

*Estimated - gauge tampered with.

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :— Mr John P. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 1¾ mls Direction from gauge N.N.E.

Nearest Parish Church at Belmont Distance 2 mls Direction from gauge S.S.W.

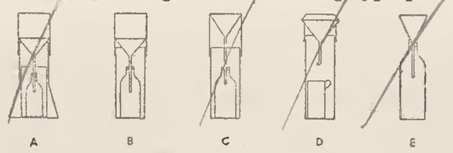
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

February estimation satisfactory

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2885

FORM 1090.

B Monthly Summary.

* The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939.

At Bolton W.W. Clough No. 2.

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1150 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·68	✓			
FEB.	5·87	✓			
MAR.	3·36	✓			
APRIL	3·60	✓			
MAY	2·18	✓			
JUNE	4·87	✓			
JULY	9·74	✓			
AUG.	3·78	✓			
SEPT.	2·01	✓			
OCT.	3·06	✓			
NOV.	9·42	✓			
DEC.	3·94	✓			
TOTAL	57·51	✓			

Signature John L. Ainsworth

* See Instruction 3 (*f*) below.

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John L. Ainsworth, B.Sc., A.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 3½ mls Direction from gauge N.N.E.

Nearest Parish Church at Belmont Distance 2 mls Direction from gauge S.S.W.

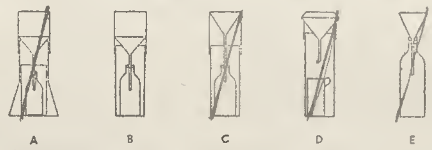
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2885

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1940.

At Bolton W.W., Clough

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1150 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*3·90				
FEB.	*3·50				
MAR.	*3·95 ✓				
APRIL	3·61 ✓				
MAY	0·96 ✓				
JUNE	1·14 ✓				
JULY	7·31 ✓				
AUG.	3·96 ✓				
SEPT.	6·52 ✓				
OCT.	5·81				
NOV.	9·68 ✓				
DEC.	7·46 ✓				
TOTAL	57·80 ✓				

*Estimated.

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 1¾ mls. Direction from gauge N.N.E.

Nearest Parish Church at Belmont Distance 2 mls. Direction from gauge S.S.W.

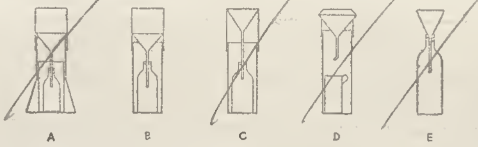
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If **you know of any record of rainfall** not quoted in **British Rainfall**, please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM
VALUES FORWARDED MONTHLY

WATERWORKS
ENGINEER
15 JAN 1941
Ref
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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FORM 1090. **B** M S

2887

*** The following register of mon &c., is NOT required if daily values are given on the other

RAINFALL IN 193

At Bolton W.W. Cran

In the County of S. Lanca

Rain Gauge
Diameter of Funnel 5
Height of Top above Ground 1 *ft.*
Height of Ground above Sea Level

2887

BOLTON, CRANBERRY MOSS W.W.

1931 —— 40

780502

and also the space for

egister should be sent:—

in Summer

Direction from gauge

Direction from gauge

Directions from gauge ..

Month.	Total Depth.	Greatest Fall in 24 hours.			
	Inches.	Inches.	Date.		
JAN.	8·30				
FEB.	6·82				
MAR.	·73				
APRIL	4·13				
MAY	3·05				
JUNE	6·32				
JULY	5·60				
AUG.	6·35				
SEPT.	5·29				
OCT.	3·49				
NOV.	10·29				
DEC.	3·49				
Total	63·86				

Signature Bolton Corporation W.W.
per J.P. Ainsworth

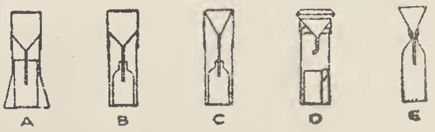
*See Instruction 2 (*f*) below.

If gauge has been moved during the year state—

Date of move.................. Distance.................. Direction..................

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at* 9 *a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January* 1st *is the rainfall for the* 24 *hours following* 9 *a.m. on January* 1st; *it is therefore the amount measured on January* 2nd. 9 *a.m. Greenwich Mean Time is* 10 *a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02, *or* 0·3.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090.

B [redacted]

2887

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1931

No 2.

At Bolton W.W. Cranberry Moss

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 982 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	8·30				
FEB.	6·82				
MAR.	·73				
APRIL	4·13				
MAY	3·05				
JUNE	6·32				
JULY	5·60				
AUG.	6·35				
SEPT.	5·29				
OCT.	3·49				
NOV.	10·29				
DEC.	3·49				
Total	63·86				

Signature Bolton Corporation W.W.
per J.P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

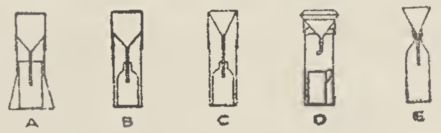
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

FORM 1090.

B Monthly Summary.

2887

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Cranberry Moss

In the County of Lancs

Rain Gauge
Diameter of Funnel.................in.
Height of Top above Ground.........ft..........in.
Height of Ground above Sea Level..........ft.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6·72				
FEB.	·19				
MAR.	4·32				
APRIL	4·69				
MAY	5·68				
JUNE	1·20				
JULY	5·41				
AUG.	1·81				
SEPT.	8·53				
OCT.	10·15				
NOV.	4·71				
DEC.	3·03				
Total	56·44				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter..........in Summer..........

Nearest Railway Station.......... Distance.......... Direction from gauge..........

Nearest Parish Church at.......... Distance.......... Direction from gauge..........

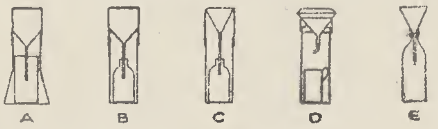
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move.......... Distance.......... Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

Copy by B.R.O.

16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090. **B** Monthly Summary.

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1933.

At Bolton W.W., Cranberry Moss

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 982 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·96				
FEB.	4·35				
MAR.	3·60				
APRIL	2·55				
MAY	2·64				
JUNE	3·01				
JULY	4·08				
AUG.	3·78				
SEPT.	1·04				
OCT.	5·89				
NOV.	2·89				
DEC.	·82				
Total	38·61				

Signature Bolton Corporation W.W.,

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.* 9 *a.m. Greenwich Mean Time is* 10 *a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

M.O. 7
JAN 1934

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(506) Wt.24107/1845 15000 3/33. Gp. 119/110.

FORM 1090.

B Monthly Summary.

C Particulars of Station.

2884

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Cranberry Moss

In the County of S. Lancs

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 982 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	5·03				
FEB.	0·53				
MAR.	3·56				
APRIL	3·30				
MAY	5·02				
JUNE	3·09				
JULY	2·65				
AUG.	6·31				
SEPT.	5·13				
OCT.	8·11				
NOV.	2·93				
DEC.	8·61				
Total	54·24				

✓

Signature..............................

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter.................... in Summer....................

Nearest Railway Station.................... Distance.................... Direction from gauge....................

Nearest Parish Church at.................... Distance.................... Direction from gauge....................

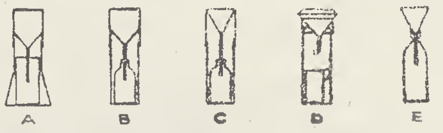
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move.................... Distance.................... Direction....................

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2887

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W., Cranberry Moss No. 2.

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft* – *in.*
Height of Ground above Sea Level 982 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·30				
FEB.	8·19				
MAR.	2·02				
APRIL	4·68				
MAY	1·35				
JUNE	4·73				
JULY	2·38				
AUG.	2·29				
SEPT.	†9·00				
OCT.	11·62				
NOV.	6·36				
DEC.	4·98				
Total	60·90				

Signature John P. Ainsworth

WATERWORKS ENGINEER
17 JAN. 1936
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John P. Ainsworth, B.Sc., M.Inst.C.E., Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1½ mls. Direction from gauge S.E.

Nearest Parish Church at Darwen Distance 2¼ mls. Direction from gauge N.W. by N.

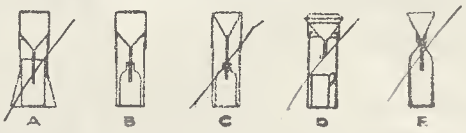
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

†Estimated; gauge interfered with.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

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9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{l}17\\18\end{array}\right\}$ ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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M

2887

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W. Cranberry Moss No. 2.

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft* 0 *in.*
Height of Ground above Sea Level 982 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·61				
FEB.	3·28				
MAR.	4·43				
APRIL	1·36				
MAY	1·10				
JUNE	5·80				
JULY	6·42				
AUG.	3·69				
SEPT.	5·90				
OCT.	7·02				
NOV.	8·47				
DEC.	6·44				
Total	59·52				

Signature John Ainsworth

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr John D. Ainsworth, B.Sc., M.Inst.C.E., Waterworks Engr., St George's Sq., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1 3/8 mls. Direction from gauge S.E.

Nearest Parish Church at Turton Distance 2 5/8 mls. Direction from gauge S.E.

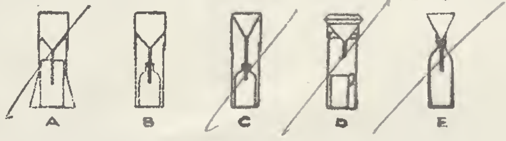
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2887

TRAVELLING FORM.
MONTHLY

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937.

At Bolton W.W., Cranberry Moss

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 982 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·68				
FEB.	7·36				
MAR.	2·12				
APRIL	5·52				
MAY	2·23				
JUNE	2·67				
JULY	2·59				
AUG.	3·24				
SEPT.	2·13				
OCT.	2·71				
NOV.	2·22				
DEC.	3·28				
TOTAL	40·75				

Signature John P. [illegible]

*See Instruction 2 *(f)* below.

C Particulars of Station,

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Waterworks Engineer,
Town Hall, Bolton.

~~Hour of~~ observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1 3/8 mls Direction from gauge S.E.

Nearest Parish Church at Turton Distance 2 5/8 mls Direction from gauge S.E.

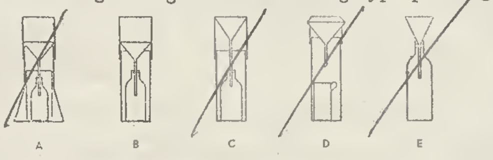
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

- (a) It is known that the gauge was empty at the beginning of the measured rainfall?
- (b) What note was made of the times of beginning and end of this fall?
- (c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

- (a) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*
- (b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
  - (A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
  - (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.
- (c) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.
- (d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\begin{matrix}17\\18\end{matrix}\Big\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.
- (e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.
- (f) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.
- (g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.
- (h) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2887

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W., Cranberry Moss, 2.

In the County of S. Lancashire.

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 982 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·94				
FEB.	2·70				
MAR.	2·32				
APRIL	0·95				
MAY	*(5·00)				
JUNE	*(5·90)				
JULY	*(6·75)				
AUG.	3·02				
SEPT.	*(3·40)				
OCT.	*(12·00)				
NOV.	*8·35				
DEC.	5·76				
TOTAL	63·09				

Signature John R. Ainsworth

*Estimated – Gauge tampered with.

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Mr John R. Ainsworth, Waterworks Engineer, Town Hall, Bolton

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1⅜ mls Direction from gauge S.E.

Nearest Parish Church at Turton Distance 2⅝ mls Direction from gauge S.E.

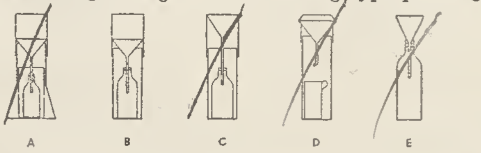
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move............ Distance............ Direction............

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Estimations in May, June July, Sept, Oct and Nov satisfactory

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2887

FORM 1090.

B Monthly Summary.

⁎ **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1939.

At Bolton W.W. Cranberry moss 2.

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 982 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·93 ~~4·93~~				
FEB.	6·05 ~~4·05~~				
MAR.	2·60				
APRIL	3·48 ~~2·48~~				
MAY	1·72				
JUNE	4·64 ~~3·64~~				
JULY	10·04 ~~8·04~~				
AUG.	3·23				
SEPT.	1·63				
OCT.	2·63				
NOV.	*9·40				
DEC.	3·40 ~~2·40~~				
TOTAL	(54·75) ~~46·75~~				

Signature John P. Ainsworth

*Estimated.

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1 3/8 mls Direction from gauge S.E.

Nearest Parish Church at Turton Distance 2 5/8 mls Direction from gauge S.E.

Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move.................. Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Jan, Feb, April, June, July & Dec adjusted by refce to nearby stns.

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt. 3079/2165 25,500 12/37 W. H. & S. 668/91 S.O. Code No. 40-9999

2887

FORM 1090.

B Monthly Summary.

* The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 19~~3~~40.

At Bolton W.W., Cranberry Moss

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 982 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*(3·75)				
FEB.	*(3·30)				
MAR.	3·81				
APRIL	3·09				
MAY	0·69				
JUNE	1·17				
JULY	6·16				
AUG.	2·85				
SEPT.	6·20				
OCT.	5·86				
NOV.	10·04				
DEC.	6·67				
TOTAL	(53·59)				

*Estimated.

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
John P. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1 3/8 mls Direction from gauge S.E.

Nearest Parish Church at Turton Distance 2 5/8 mls Direction from gauge S.E.

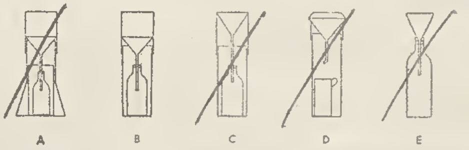
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN 1941
Ref.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

X check gauge on back X

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

2887

FORM 1090.

B Monthly Summary.

⁎ The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1940.

At Cranberry Moss
(check Gauge)
In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 990 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.					
FEB.					
MAR.					
APRIL					
MAY					
JUNE					
JULY	4·05				
AUG.	2·45				
SEPT.	4·23				
OCT.	*5·80				
NOV.	*10·00				
DEC.	6·64				
TOTAL	~~33~~ 17				

np imp

Signature John P. Ainsworth
*Estimated - Gauge leaking. New Gauge fixed. 1/12/40.
* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.
Nearest Railway Station Entwistle Distance 1⅜ mls Direction from gauge S.E.
Nearest Parish Church at Turton Distance 2⅝ mls Direction from gauge S.E.

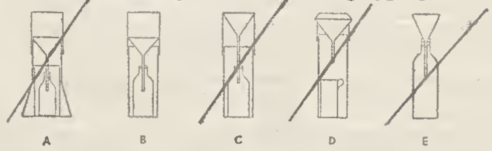
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and **B.**)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN 1941
Ref.
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
  (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
  (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 / 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2888

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BOLTON, SLATER LANE

1931 —— 40

780502

FORM 1090. **B**

*** The following register of m
&c., is NOT required if da
values are given on the oth

on and also the space for

is register should be sent:—
m. Insp. b. E.
eorge's St. Bolton.

RAINFALL IN 1

At Slater La

In the County of Lanc

m. in Summer 9 a.m.

nce 2¾ mls gauge Direction from N.E.

nce 2¼ mls gauge Direction from S.E.

Rain Gauge
Diameter of Funnel
Height of Top above Ground 1
Height of Ground above Sea Le

Month.	Total Depth.	Greatest Fall in 24 hours.			
	Inches.	Inches.	Date.		
JAN.	7·88	Monthly readings taken			
FEB.	5·74				
MAR.	0·91				
APRIL	4·20				
MAY	2·53				
JUNE	7·62				
JULY	5·56				
AUG.	6·27				
SEPT.	5·14				
OCT.	3·70				
NOV.	9·59				
DEC.	3·52				
Total	62·66				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

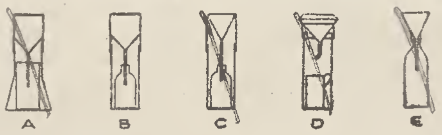
Directions from gauge ..

If gauge has been moved during the year state—

Date of move.......... Distance.......... Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN. 1932
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

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(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02, *or* 0·3.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

FORM 1090. **B** Summary.

2888

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1931

At Slater Lane

In the County of Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 988 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	7·88				
FEB.	5·74	Monthly readings	taken		
MAR.	0·91				
APRIL	4·20				
MAY	2·53				
JUNE	7·62				
JULY	5·56				
AUG.	6·27				
SEPT.	5·14				
OCT.	3·70				
NOV.	9·59				
DEC.	3·52				
Total	62·66				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
John P. Ainsworth, B.Sc., A.M.Inst.C.E.
Waterworks Engineer, St George's St, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2¾ mls Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 2¼ mls Direction from gauge S.E.

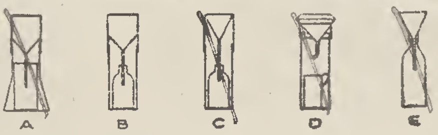
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN. 1932
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*a*) *Rain should be measured each morning, preferably at* 9 *a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following* 9 *a.m. on January* 1*st; it is therefore the amount measured on January 2nd.* 9 *a.m. Greenwich Mean Time is* 10 *a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r}17\\18\end{array}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

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FORM 1090.

2888

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Slater Lane

In the County of Lancs.

Rain Gauge
Diameter of Funnel .... in.
Height of Top above Ground .... ft .... in.
Height of Ground above Sea Level .... ft.

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6·10				
FEB.	·20				
MAR.	3·97				
APRIL	4·21				
MAY	5·20				
JUNE	1·15				
JULY	5·80				
AUG.	1·89				
SEPT.	7·76				
OCT.	9·55				
NOV.	4·06				
DEC.	2·76				
Total	52.65				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

Copy by B.R.O.
16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

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(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933.

At SLATER LANE

In the County of Lancashire.

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* -- *in.*
Height of Ground above Sea Level 985 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3.40	Readings taken monthly.			
FEB.	4.41				
MAR.	3.65				
APRIL	2.10				
MAY	2.69				
JUNE	3.08				
JULY	3.67				
AUG.	3.95				
SEPT.	1.16				
OCT.	5.27				
NOV.	3.08				
DEC.	0.74				
Total	37.20 ✓				

Signature J. P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, St. George's St., BOLTON.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance $2\frac{3}{4}$ mls. Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance $2\frac{1}{4}$ mls. Direction from gauge S.S.E.

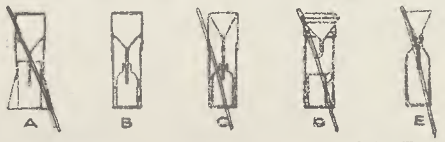
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any **record of rainfall** not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\begin{matrix}17\\18\end{matrix}\left|\left.\right\}\cdot 14\right|$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090. **B** Monthly Summary.

, **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1934.

At Slater Lane

In the County of Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft* - *in.*

Height of Ground above Sea Level 985 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4.03				
FEB.	0.46				
MAR.	2.92				
APRIL	3.11				
MAY	3.94				
JUNE	2.56				
JULY	2.51				
AUG.	6.99				
SEPT.	4.16				
OCT.	7.28				
NOV.	2.98				
DEC.	7.10				
Total	48.04				

Readings taken monthly.

Signature

WATERWORKS ENGINEER
-9 JAN. 1935
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

2888

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, St. George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2¾ mls Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 2¼ mls Direction from gauge S.S.E.

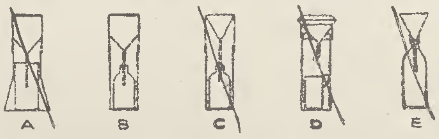
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(a) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

M.O.
JAN 1935

(c) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

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2888

FORM 1090. **B** Monthly Summary.

C Particulars of Station.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W. Slater Lane
In the County of S. Lancashire
Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* = *in.*
Height of Ground above Sea Level 985 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·47				
FEB.	5·59				
MAR.	1·74				
APRIL	4·15				
MAY	1·76				
JUNE	3·60				
JULY	2·50				
AUG.	2·24				
SEPT.	8·19				
OCT.	10·81				
NOV.	5·61				
DEC.	4·65				
Total	54·31				

Signature John D Ainsworth

WATERWORKS ENGINEER
17 JAN. 1936
REF. ....
BOLTON

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John D. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

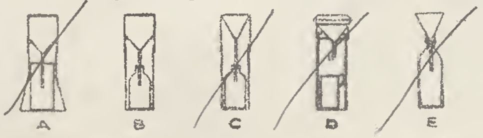
Hour of observation by the clock—in Winter 9 am. in Summer 9 a.m.
Nearest Railway Station Spring Vale Distance 2¾ mls. Direction from gauge E.N.E.
Nearest Parish Church at Belmont Distance 2¼ mls. Direction from gauge S.S.E.

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)
If the gauge is of a self-registering or self-recording type please give particulars.



If you **know of any record of rainfall** not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

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(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

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(506) Wt.24107/1845 15000 3/33. Gp. 119/110.

M

2888

Form 1090.

B Monthly Summary.

**The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W. Slater Lane

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 985 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
Jan.	4·61 ✓				
Feb.	2·95 ✓				
Mar.	3·24				
April	1·38				
May	1·65 ✓				
June	5·03 ✓				
July	6·43 ✓				
Aug.	3·45				
Sept.	5·57 ✓				
Oct.	6·57 ✓				
Nov.	7·94				
Dec.	6·19 ✓				
Total	55·01 ✓				

Signature John D. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John D. Ainsworth, B.Sc. M.Inst.C.E.
Waterworks Engr., St. George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2¾ mls. Direction from gauge N.N.E.

Nearest Parish Church at Belmont Distance 2¼ mls. Direction from gauge S.S.E.

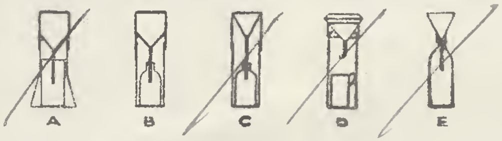
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

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(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

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(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2888

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

FORM 1090.

B Monthly Summary.

C Particulars of Station

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1937

At Bolton W.W., Slater Lane

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* – *in.*
Height of Ground above Sea Level 985 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·16				
FEB.	6·66				
MAR.	2·47				
APRIL	4·98				
MAY	2·60				
JUNE	2·49				
JULY	2·94				
AUG.	3·23				
SEPT.	2·40				
OCT.	2·66				
NOV.	2·49				
DEC.	2·41				
TOTAL	39·49				

Signature John R. [illegible]

*See Instruction 2 *(f)* below.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2¾ mls Direction from gauge S.S.E.

Nearest Parish Church at Belmont Distance 2¼ mls Direction from gauge S.S.E.

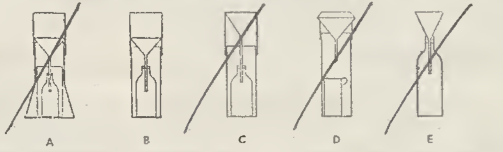
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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Wt.3430/1699 15,000 2/35 W. H. & S. 668/91.

2888

FORM 1090.

B Monthly Summary.

**** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1938.

At Bolton W.W., Slater Lane

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* - *in.*
- *Height of Ground above Sea Level* 985 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·76				
FEB.	2·03				
MAR.	2·36				
APRIL	0·78				
MAY	5·64				
JUNE	6·00				
JULY	6·65				
AUG.	3·65				
SEPT.	3·79				
OCT.	10·66				
NOV.	7·62				
DEC.	5·94				
TOTAL	60·88				

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Mr. John P. Ainsworth, Waterworks
Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2¾ mls Direction from gauge NNE

Nearest Parish Church at Belmont Distance 2¼ mls Direction from gauge SSE

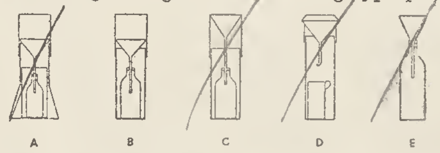
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM.
VALUE FORWARDED MONTHLY

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
   (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
   (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005 : this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt.1046/3030. 26,000. 4/36. W. H. & S. 668/91. S.O. Code No. 40-9999

2888

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939.

At Bolton W.W., Slater Lane

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 985 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·53	✓			
FEB.	5·57	✓			
MAR.	2·53	✓			
APRIL	3·35	✓			
MAY	1·90	✓			
JUNE	4·41	✓			
JULY	8·58	✓			
AUG.	3·21	✓			
SEPT.	2·07	✓			
OCT.	2·95	✓			
NOV.	(*8·50)				
DEC.	3·07	✓			
TOTAL	52·67	✓			

Signature John P. Ainsworth

*Estimated.

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2¾ mls Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 2¼ mls Direction from gauge S.S.E.

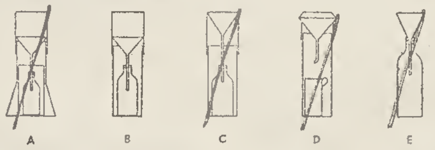
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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FORM 1090.

2888 ✓

B Monthly Summary.

* The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1940.

At Bolton W.W. Slater Lane

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 985 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	(*3·70)				
FEB.	(*3·60)				
MAR.	3·76 ✓				
APRIL	3·63 ✓				
MAY	0·97 ✓				
JUNE	1·28 ✓				
JULY	6·97 ✓				
AUG.	4·15 ✓				
SEPT.	6·27 ✓				
OCT.	5·39				
NOV.	8·74 ✓				
DEC.	6·94 ✓				
TOTAL	(55·40) ✓				

*Estimated.

Signature John L. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John L. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2¾ mls. Direction from gauge E.N.E.

Nearest Parish Church at Belmont Distance 2¼ mls. Direction from gauge S.S.E.

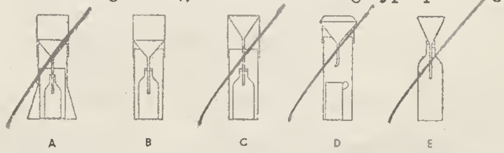
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B.**)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN 1941
Ref.
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
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- (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked* ·005; *this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this* ·005 *mark or between this* ·005 *and the* ·01 *mark are to be entered as* ·01 *even though they may be nearer to the* ·005 *mark than the* ·01 *mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2889

FORM 1090. **B** M S

2889

BOLTON, BROWNE LOWE
1931 —— 40

7to502

, The following register of mon
&c., is NOT required if daily
values are given on the other

and also the space for

egister should be sent:—

RAINFALL IN 193

At Bolton W.W., Brow

In the County of S. Lancas

Rain Gauge { Diameter of Funnel 5
Height of Top above Ground 1 *ft*
Height of Ground above Sea Level

in Summer

Direction from gauge

Direction from gauge

Directions from gauge ..

Month.	Total Depth.	Greatest Fall in 24 hours.			
	Inches.	Inches.	Date.		
JAN.	8·13				
FEB.	6·92				
MAR.	·85				
APRIL	4·38				
MAY	3·09				
JUNE	7·33				
JULY	6·00				
AUG.	6·70				
SEPT.	5·22				
OCT.	3·75				
NOV.	10·20				
DEC.	3·70				
Total	66·27				

Signature Bolton Corporation W.W.
per J. P. Ainsworth

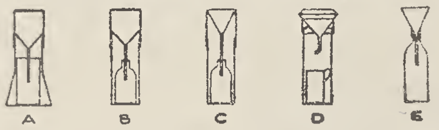
*See Instruction 2 (*f*) below.

If gauge has been moved during the year state—

Date of move................ Distance................ Direction................

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2889

FORM 1090. **B**

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.*

RAINFALL IN 1931

At Bolton W.W., Brown Lowe

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 1200 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	8·13				
FEB.	6·92				
MAR.	·85				
APRIL	4·38				
MAY	3·09				
JUNE	7·33				
JULY	6·00				
AUG.	6·70				
SEPT.	5·22				
OCT.	3·75				
NOV.	10·20				
DEC.	3·70				
Total	66·27				

Signature Bolton Corporation W. W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

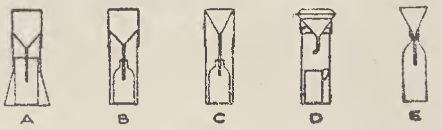
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.* 9 *a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "**tr**" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 / 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2889.

FORM 1090.

B Monthly Summary.

*** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1932

At Brown Lowe

In the County of Lancs.

Rain Gauge
- Diameter of Funnel .... in.
- *Height of Top above Ground* .... *ft.* .... *in.*
- *Height of Ground above Sea Level* .... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6·35				
FEB.	·18				
MAR.	4·35				
APRIL	4·80				
MAY	5·71				
JUNE	1·35				
JULY	5·86				
AUG.	1·83				
SEPT.	8·52				
OCT.	10·13				
NOV.	4·46				
DEC.	2·82				
Total	56·36				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

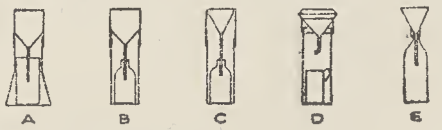
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

Copy by B.R.O.

16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2889

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1933.

At Bolton W.W., Brown Lowe

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 1200 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·63				
FEB.	4·53				
MAR.	3·81				
APRIL	2·76				
MAY	2·67				
JUNE	3·46				
JULY	4·20				
AUG.	4·05				
SEPT.	1·29				
OCT.	5·44				
NOV.	3·04				
DEC.	·79				
Total	39·67				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed List.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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M.O. 7
4 JAN 1934

W

2889

FORM 1090. **B** Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Brown Lowe

In the County of S. Lancs.

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 1200 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4.62				
FEB.	0.56				
MAR.	3.37				
APRIL	3.39				
MAY	5.24				
JUNE	2.72				
JULY	2.78				
AUG.	7.14				
SEPT.	4.74				
OCT.	7.91				
NOV.	3.18				
DEC.	8.92				
Total	54.57				

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter........ in Summer........

Nearest Railway Station........ Distance........ Direction from gauge........

Nearest Parish Church at........ Distance........ Direction from gauge........

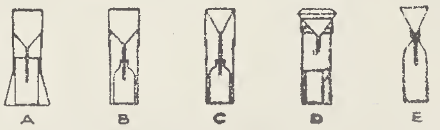
	A	B	C	D
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move........ Distance........ Direction........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 / 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2889

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W. Brown Lowe

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* – *in.*
- *Height of Ground above Sea Level* 1200 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·12				
FEB.	7·82				
MAR.	2·10				
APRIL	4·23				
MAY	1·39				
JUNE	4·55				
JULY	2·55				
AUG.	2·31				
SEPT.	8·91				
OCT.	11·88				
NOV.	6·19				
DEC.	5·38				
Total	60·43				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 1⅝ mls. Direction from gauge N.E.

Nearest Parish Church at Darwen Distance 2 mls. Direction from gauge S. by W.

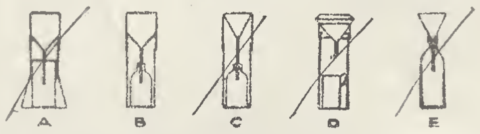
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
17 JAN. 1936
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2889

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W. Brown Lowe

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 1200 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·75 ✓				
FEB.	2·85 ✓				
MAR.	4·54				
APRIL	1·35				
MAY	1·14 ✓				
JUNE	5·92 ✓				
JULY	6·70 ✓				
AUG.	3·57 ✓				
SEPT.	5·84 ✓				
OCT.	6·85				
NOV.	8·19 ✓				
DEC.	6·27				
Total	58·97 ✓				

Signature John P. Ainsworth

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engr., St. George's St., Bolton

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2 mls. Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 2¼ mls. Direction from gauge S.S.W.

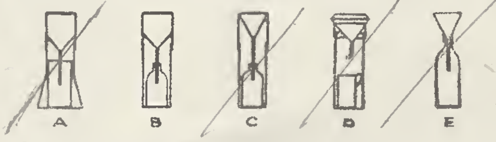
Nature of objects nearest to gauge				
Height of objects				
Distances				
Directions from gauge				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.* *9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}$ ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2889

TRAVELLING FORM.

VALUES FORWARDED MONTHLY

FORM 1090. **B** Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937

At Bolton W.W., Brown Lowe

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* – *in.*
- *Height of Ground above Sea Level* 1200 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·71				
FEB.	6·80				
MAR.	2·16				
APRIL	5·42				
MAY	2·63				
JUNE	2·91				
JULY	2·82				
AUG.	3·81				
SEPT.	2·43				
OCT.	2·80				
NOV.	2·33				
DEC.	2·97				
TOTAL	41·79				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station,

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2 mls. Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 2¼ mls. Direction from gauge S.S.W.

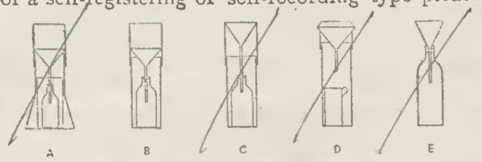
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move.................. Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2889

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W., Brown Lowe

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* – *in.*
Height of Ground above Sea Level 1,200 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·25				
FEB.	2·43				
MAR.	2·46				
APRIL	1·07				
MAY	5·50				
JUNE	6·09				
JULY	6·98				
AUG.	3·69				
SEPT.	3·57				
OCT.	12·02				
NOV.	8·40				
DEC.	6·35				
TOTAL	64·81				

Signature John L. Ainsworth

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :— Mr. John L. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2 mls Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 2¼ mls Direction from gauge S.S.W.

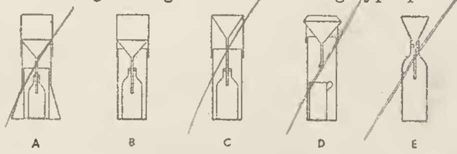
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

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9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005 ; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

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(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

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Wt.1046/3030. 26,000. 4/36. W. H. & S. 668/91. S.O. Code No. 40-9999

2889

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939.

At Bolton W.W., Brown Lowe

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1200 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·08	✓			
FEB.	5·56	✓			
MAR.	3·04	✓			
APRIL	3·57	✓			
MAY	2·26	✓			
JUNE	4·73	✓			
JULY	9·32	✓			
AUG.	4·02	✓			
SEPT.	2·04	✓			
OCT.	3·17	✓			
NOV.	9·47	✓			
DEC.	3·83	✓			
TOTAL	57·09				

Signature John P. Ainsworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2 mls Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 2¼ mls Direction from gauge S.S.W.

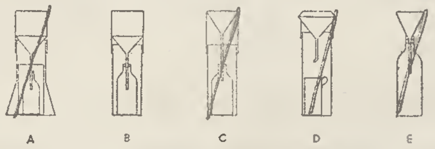
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

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(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt. 3079/2165 25,500 12/37 W. H. & S. 663/91
S.O. Code No. 40-9999

2889

FORM 1090.

B Monthly Summary.

* The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1940

At Bolton W.W., Brown Lowe

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1200 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*(3·90)				
FEB.	*(3·50)				
MAR.	3·97				
APRIL	3·31				
MAY	1·05				
JUNE	1·19				
JULY	7·22				
AUG.	3·84				
SEPT.	6·38				
OCT.	5·66				
NOV.	9·03				
DEC.	6·70				
TOTAL	(55·75)				

*Estimated.

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

John P. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Spring Vale Distance 2 mls. Direction from gauge N.E.

Nearest Parish Church at Belmont Distance 2¼ mls. Direction from gauge S.S.W.

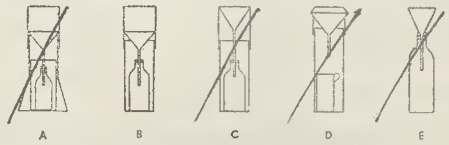
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS
ENGINEER
15 JAN 1941
Ref
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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Wt. 3079/2165 25,500 12/37 W. H. & S. 668/91 S.O. Code No. 40-9999

2890

FORM 1090. **B** Mo
Su

*** The following register of month
&c., is NOT required if daily o
values are given on the other si

2890

BOLTON, LONGSHOOT WW

1931 —— 40

780502

hd also the space for

ister should be sent:—

....

....

.in Summer..........

Direction from gauge ....

Direction from gauge ....

RAINFALL IN 1931

At Bolton W.W. Longs

In the County of S. Lancas

Rain Gauge
Diameter of Funnel 5
Height of Top above Ground 1 *ft*
Height of Ground above Sea Level

Month.	Total Depth.	Greatest Fall in 24 hours.		N D ·o or	
	Inches.	Inches.	Date.		
JAN.	8·55				
FEB.	7·34				
MAR.	1·10				
APRIL	4·29				
MAY	3·23				
JUNE	6·23				
JULY	5·43				
AUG.	6·45				
SEPT.	5·89				
OCT.	3·59				
NOV.	10·26				
DEC.	3·98				
Total	66·34				

Directions from gauge ..

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

If gauge has been moved during the year state—

Date of move.......... Distance.......... Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.* 9 *a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2890

FORM 1090. **B** Mo… Summary.

C Particulars of Station.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1931

At Bolton W.W. Longshoot

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 930 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	8·55				
FEB.	7·34				
MAR.	1·10				
APRIL	4·29				
MAY	3·23				
JUNE	6·23				
JULY	5·43				
AUG.	6·45				
SEPT.	5·89				
OCT.	3·59				
NOV.	10·26				
DEC.	3·98				
Total	66·34				

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

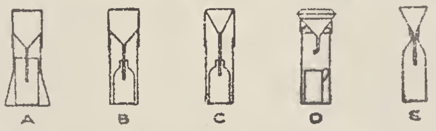
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090.

B Monthly Summary.

⁎ The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Longshoot

In the County of Lancs.

Rain Gauge
Diameter of Funnel .... in.
Height of Top above Ground .... *ft* .... *in.*
Height of Ground above Sea Level .... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in or more	Number of Days with ·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	7·14				
FEB.	·23				
MAR.	4·05				
APRIL	5·04				
MAY	5·54				
JUNE	1·29				
JULY	4·99				
AUG.	1·63				
SEPT.	7·54				
OCT.	9·26				
NOV.	5·00				
DEC.	3·07				
Total	54·78				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

2890

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

Copy by B.R.O.
16 JAN. 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.* 9 *a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02, *or* 0·3.

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

2890

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933.

At Bolton W.W., Longshoot

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 930 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4.35				
FEB.	4.75				
MAR.	3.58				
APRIL	2.33				
MAY	2.18				
JUNE	3.14				
JULY	4.44				
AUG.	3.73				
SEPT.	1.06				
OCT.	5.75				
NOV.	3.09				
DEC.	.88				
Total	39.28				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(506) Wt.24107/1845 15000 3/33. Gp. 119/110.

2890

FORM 1090.

B Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Longshoot

In the County of S Lancs

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 0 *in.*
Height of Ground above Sea Level 930 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	5.14				
FEB.	0.52				
MAR.	3.24				
APRIL	3.23				
MAY	5.25				
JUNE	3.54				
JULY	2.84				
AUG.	5.74				
SEPT.	4.93				
OCT.	8.60				
NOV.	2.72				
DEC.	8.02				
Total	53.77				

✓

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter in Summer

Nearest Railway Station Distance Direction from gauge

Nearest Parish Church at Distance Direction from gauge

	A	B	C	D
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{r|}17\\18\end{array}\right\}\cdot14\,\Big|$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2890

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W., Longshoot

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* = *in.*
Height of Ground above Sea Level 930 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	3·92				
FEB.	9·09				
MAR.	1·93				
APRIL	4·52				
MAY	1·21				
JUNE	4·59				
JULY	2·39				
/ AUG.	2·15				
SEPT.	9·44				
OCT.	12·63				
/ NOV.	6·23				
DEC.	5·19				
Total	63·29				

Signature John P Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1¾ mls Direction from gauge S. by W.

Nearest Parish Church at Turton Distance 3 mls Direction from gauge S.

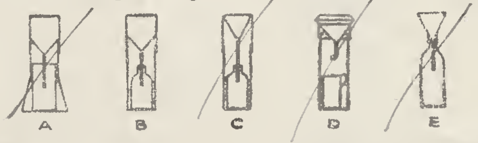
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
17 JAN. 1936
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as* 0·1 *and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

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2890

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936.

At Bolton W.W., Longshoot

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 930 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·01				
FEB.	3·05				
MAR.	4·33				
APRIL	1·33				
MAY	0·86				
JUNE	4·54				
JULY	5·60				
AUG.	3·87				
SEPT.	6·65				
OCT.	7·81				
NOV.	7·81				
DEC.	7·53				
Total	59·39				

Signature John F. Ainsworth

WATERWORKS ENGINEER
12 JAN. 1937
REF. ......
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John F. Ainsworth, B.Sc., A.Inst.C.E.,
Waterworks Engr., St. George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1 5/8 mls. Direction from gauge S.S.W.

Nearest Parish Church at Turton Distance 2 3/4 mls. Direction from gauge S.

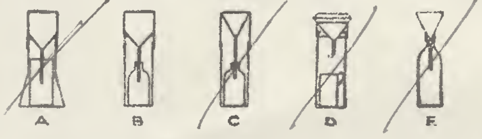
Nature of objects nearest to gauge				
Height of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

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9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

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(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

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3. The columns are so spaced that the entries can be made by a typewriter.

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2890

TRAVELLING FORM.
FORWARDED MONTHLY

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937

At Bolton W.W., Longshoot

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* — *in.*
- *Height of Ground above Sea Level* 930 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·13				
FEB.	7·63				
MAR.	2·66				
APRIL	4·99				
MAY	2·04				
JUNE	2·36				
JULY	2·69				
AUG.	3·41				
SEPT.	2·22				
OCT.	2·69				
NOV.	2·27				
DEC.	3·97				
TOTAL	42·06				

Signature John P. [illegible]

WATERWORKS ENGINEER
12 JAN 1938
REF.........
BOLTON

*See Instruction 2 *(f)* below.

C Particulars of Station,

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Waterworks Engineer
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1 5/8 mls Direction from gauge S.S.W.

Nearest Parish Church at Turton Distance 2 3/4 mls Direction from gauge S.

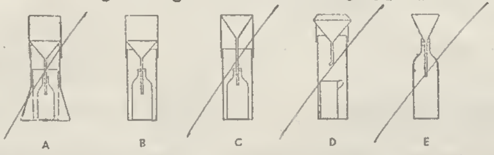
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move................................ Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



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NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

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2890

FORM 1090.

B Monthly Summary.

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RAINFALL IN 1938.

At Bolton W.W., Longshoot

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
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- *Height of Ground above Sea Level* 930 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	7·57				
FEB.	2·62				
MAR.	2·39				
APRIL	1·11				
MAY	4·97				
JUNE	5·97				
JULY	6·02				
AUG.	3·67				
SEPT.	2·87				
OCT.	14·44				
NOV.	9·23				
DEC.	6·33				
TOTAL	67·19				

Signature John P. Ainsworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Mr. John P. Ainsworth, Waterworks Engineer, Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1 5/8 mls Direction from gauge S.S.W.

Nearest Parish Church at Turton Distance 2¾ mls Direction from gauge S.

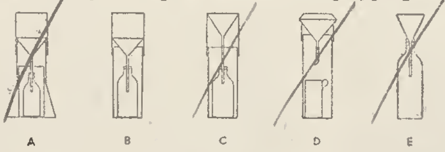
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM.
VALUE FORWARDED MONTHLY

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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FORM 1090.

2890

B Monthly Summary.

** **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1939.

At Bolton W.W., Longshoot

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 930 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·18	✓			
FEB.	5·77	✓			
MAR.	3·24	✓			
APRIL	3·42	✓			
MAY	2·29	✓			
JUNE	4·63	✓			
JULY	10·27	✓			
AUG.	3·58	✓			
SEPT.	1·81	✓			
OCT.	2·51	✓			
NOV.	9·37	✓			
DEC.	3·57	✓			
TOTAL	56·64	✓			

Signature John P. Ainsworth

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth, B.Sc, M.Inst.C.E.
Waterworks Engineer, Town Hall, Bolton

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1 5/8 mls Direction from gauge SSW.

Nearest Parish Church at Turton Distance 2 3/4 mls Direction from gauge S

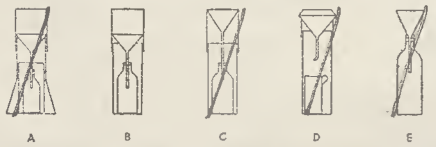
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
- (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
- (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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FORM 1090.

2890 ✓

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1940

At Bolton W.W., Longshoot

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 930 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*(3·30)				
FEB.	*(3·10)				
MAR.	3·76 ✓				
APRIL	3·62 ✓				
MAY	0·81 ✓				
JUNE	1·18 ✓				
JULY	5·56 ✓				
AUG.	3·36 ✓				
SEPT.	6·80 ✓				
OCT.	5·93				
NOV.	10·15 ✓				
DEC.	7·14 ✓				
TOTAL	(54·71) ✓				

*Estimated.

Signature John D. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

John D. Ainsworth,
Waterworks Engineer, Bolton

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 1 5/8 mls Direction from gauge SSW.

Nearest Parish Church at Turton Distance 2 3/4 mls Direction from gauge S.

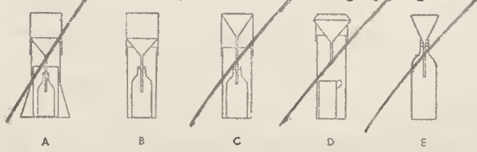
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B.**)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS
ENGINEER
15 JAN 1941
Ref.
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17, 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2892

FORM 1090. **B** Mor
Sun

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2892

BOLTON. UGLOW WW
1931 —— 40

780502

*** **The following register of monthl** **ıd also the space for**
&c., is NOT required if daily or ster should be sent:—
values are given on the other sid

RAINFALL IN 1931

At Bolton W.W., Uglow

In the County of S. Lancas

in Summer

Rain Gauge
Diameter of Funnel 5"
Height of Top above Ground 1 *ft.* 0
Height of Ground above Sea Level 1

Direction from gauge

Direction from gauge

Month.	Total Depth.	Greatest Fall in 24 hours.		Nur Da ·01 i or mo	
	Inches.	Inches.	Date.	*	
JAN.	8·24				
FEB.	7·19				
MAR.	·78				
APRIL	3·84				
MAY	3·39				
JUNE	6·63				
JULY	5·04				
AUG.	6·66				
SEPT.	5·84				
OCT.	3·54				
NOV.	10·06				
DEC.	3·35				
Total	64·56				

Directions from gauge ..

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

2892

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1931

At Bolton W.W., Uglow No. 2.

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 0 *in.*

Height of Ground above Sea Level 1090 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with ·01 in or more	Number of Days with ·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	8·24				
FEB.	7·19				
MAR.	·78				
APRIL	3·84				
MAY	3·39				
JUNE	6·63				
JULY	5·04				
AUG.	6·66				
SEPT.	5·84				
OCT.	3·54				
NOV.	10·06				
DEC.	3·35				
Total	64·56				

Signature Bolton Corporation W.W.
per J. P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

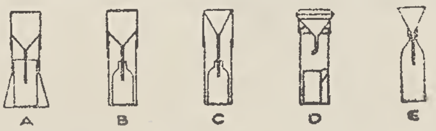
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

- (*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*
- (*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
  - (A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
  - (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.
- (*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.
- (*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in
- (*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.
- (*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*
- (*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.
- (*h*) The heaviest daily fall for each month should be underlined.

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(325) Wt.26154/1775/2214 15,000 2/31. Gp. 119/110.

FORM 1090.

B Monthly Summary.

C Particulars of Station.

2892

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Uglow

In the County of Lancs.

Rain Gauge
- Diameter of Funnel .... in.
- *Height of Top above Ground* .... *ft.* .... *in.*
- *Height of Ground above Sea Level* .... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	6.44				
FEB.	.23				
MAR.	3.79				
APRIL	4.54				
MAY	5.58				
JUNE	1.24				
JULY	5.04				
AUG.	1.83				
SEPT.	7.34				
OCT.	9.06				
NOV.	4.54				
DEC.	2.59				
Total	52.22				

Signature Bolton W.W.

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

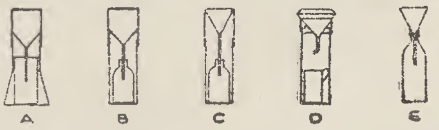
Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list

Copy by B.R.O.

16 JAN 1933

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2892

FORM 1090. **B** Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1933

At Bolton W.W. Uglow

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1090 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4.14				
FEB.	4.55				
MAR.	3.23				
APRIL	1.52				
MAY	1.89				
JUNE	2.53				
JULY	4.23				
AUG.	3.70				
SEPT.	.99				
OCT.	5.54				
NOV.	3.11				
DEC.	.85				
Total	36.28				

Signature Bolton Corporation W.W.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Hour of observation by the clock—in Winter .... in Summer ....

Nearest Railway Station .... Distance .... Direction from gauge ....

Nearest Parish Church at .... Distance .... Direction from gauge ....

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you **know of any record of rainfall** not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from printed list.

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 / 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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4

2892.

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1934

At Uglow

In the County of S Lancs

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft* 0 *in.*
Height of Ground above Sea Level 1090 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	4.59				
FEB.	0.47				
MAR.	3.20				
APRIL	3.23				
MAY	4.83				
JUNE	3.13				
JULY	2.50				
AUG.	5.54				
SEPT.	4.80				
OCT.	8.13				
NOV.	2.72				
DEC.	8.04				
Total	51.18				

Signature

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Bolton Corporation

Hour of observation by the clock—in Winter in Summer

Nearest Railway Station Distance Direction from gauge

Nearest Parish Church at Distance Direction from gauge

Nature of objects nearest to gauge				
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.

If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

Copied from Bolton Corporation Sheet

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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2892

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935

At Bolton W.W., Uglow no 2.

In the County of S. Lancashire

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft* = *in.*

Height of Ground above Sea Level 1090 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	3·75				
FEB.	8·05				
MAR.	1·72				
APRIL	4·51				
MAY	1·31				
JUNE	4·60				
JULY	2·00				
AUG.	1·96				
SEPT.	†9·00				
OCT.	11·63				
NOV.	6·02				
DEC.	4·85				
Total	59·40				

Signature John P. Ainsworth

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls. Direction from gauge S.W.

Nearest Parish Church at Turton Distance 3½ mls. Direction from gauge S.S.W.

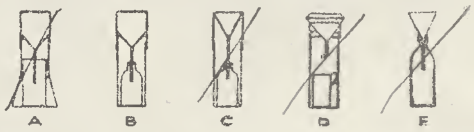
Nature of objects nearest to gauge				
Height of objects				
Distances				
Directions from gauge				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

†Estimated; gauge interfered with.

WATERWORKS ENGINEER
17 JAN. 1936
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2892

FORM 1090. **B** Monthly Summary.

⁎ The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936

At Bolton W.W., Uglow No. 2

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft* 0 *in.*
- *Height of Ground above Sea Level* 1090 *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·69				
FEB.	2·72				
MAR.	4·20				
APRIL	*0·55				
MAY	+1·00				
JUNE	3·83				
JULY	+5·30				
AUG.	+3·70				
SEPT.	6·44				
OCT.	6·77				
NOV.	6·97				
DEC.	6·42				
Total	53·59				

Signature John S. Ainsworth

WATERWORKS ENGINEER
12 JAN. 1937
REF.
BOLTON

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Mr. John S. Ainsworth, B.Sc., M.Inst.C.E., Waterworks Engr., St. George's St., Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls. Direction from gauge S.W.

Nearest Parish Church at Turton Distance 3½ mls. Direction from gauge S.S.W.

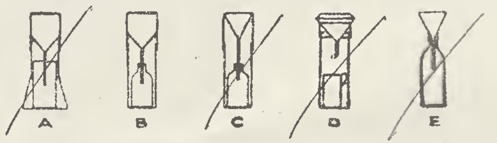
Nature of objects nearest to gauge				
Height of objects				
Distances				
Directions from gauge				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

* Figure unreliable. Gauge apparently interfered with
+ Estimated. " " " "

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-guage should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{c}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2892

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937

At Bolton W.W., Wayoh ~~No 2~~

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* – *in.*
Height of Ground above Sea Level 1090 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4·56				
FEB.	6·28				
MAR.	2·58 ✓				
APRIL	4·73 ✓				
MAY	*(2·05) ✓				
JUNE	2·13				
JULY	2·48 ✓				
AUG.	3·68 ✓				
SEPT.	2·19 ✓				
OCT.	2·83 ✓				
NOV.	1·98 ✓				
DEC.	3·52 ✓				
TOTAL	39·01 ✓				

*Estimated.

Signature John [illegible]

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
Waterworks Engineer,
Town Hall, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls Direction from gauge S.W.

Nearest Parish Church at Turton Distance 3½ mls Direction from gauge S.S.W.

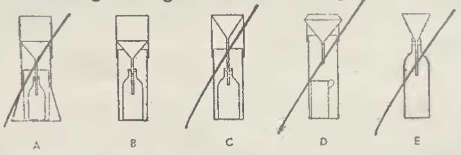
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move.................. Distance.............. Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1938
REF.
BOLTON

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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2892

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1938.

At Bolton W.W., Uglow No 2

In the County of S. Lancashire

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* – *in.*
Height of Ground above Sea Level 1,090 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	6·38				
FEB.	2·23				
MAR.	1·98				
APRIL	0·93				
MAY	4·82				
JUNE	5·58				
JULY	6·17				
AUG.	3·32				
SEPT.	2·58				
OCT.	11·77				
NOV.	7·98				
DEC.	6·03				
TOTAL	59·77				

Signature John P. Ainsworth.

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :— Mr John P. Ainsworth, Waterworks Engineer, Town Hall, Bolton

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls Direction from gauge S.W.

Nearest Parish Church at Turton Distance 3½ mls Direction from gauge S.S.W.

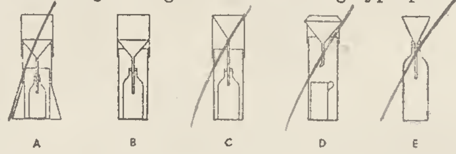
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
12 JAN 1939
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2892

FORM 1090. **B** Monthly Summary.

The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939.

At Bolton W.W. Uglow No. 2

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1090 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·93	✓			
FEB.	4·98	✓			
MAR.	3·10	✓			
APRIL	2·92	✓			
MAY	2·14	✓			
JUNE	4·22	✓			
JULY	9·54	✓			
AUG.	3·43	✓			
SEPT.	1·53	✓			
OCT.	2·83	✓			
NOV.	7·84	✓			
DEC.	3·54				
TOTAL	52·00	✓			

Signature John P. Ainsworth

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—
John P. Ainsworth, B.Sc., M.Inst.C.E.,
Waterworks Engineer, Town Hall, Bolton

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls Direction from gauge S.W.

Nearest Parish Church at Turton Distance 3½ mls Direction from gauge S.S.W.

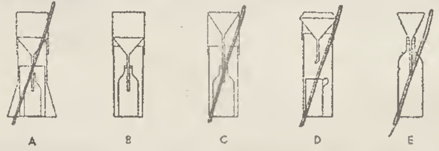
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move.......... Distance.......... Direction..........

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
10 JAN 1940
REF.
BOLTON

TRAVELLING FORM.
VALUES FORWARDED MONTHLY

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
- (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
- (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17, 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2892

FORM 1090.

B Monthly Summary.

* The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1940.

At Bolton W.W. Uglow

In the County of S. Lancashire

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 0 *in.*
- *Height of Ground above Sea Level* 1090 *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	*3·10				
FEB.	*2·95				
MAR.	3·06				
APRIL	3·44				
MAY	0·97				
JUNE	1·13				
JULY	5·05				
AUG.	3·02				
SEPT.	5·68				
OCT.	5·54				
NOV.	8·76				
DEC.	5·82				
TOTAL	48·52				

*Estimated.

Signature John P. Ainsworth

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
John P. Ainsworth,
Waterworks Engineer, Bolton.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Entwistle Distance 2½ mls. Direction from gauge S.W.

Nearest Parish Church at Turton Distance 3½ mls. Direction from gauge S.S.W.

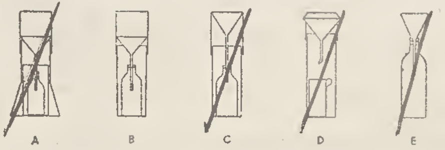
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

WATERWORKS ENGINEER
15 JAN 1941
Ref.
BOLTON

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

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2893

HAMER PASTURE RES.

1931 — 40

780502

Section | **A** | for the entry of D

AIR MINISTRY.-

FORM 1090.

REGIST

Kept at HAMER PASTURE R

in the County of LANCAST

Diameter of Funnel of Gauge 5

Height of top of Gauge above Ground

,, Ground ,, Sea Leve

THE MORNING MEASURE

An observer who does not conform to thi
year in the space on the right of this

Pl

2893

Y FOR OFFICIAL USE.

ORGANIZATION.

|32

24.2.32 for value of 1.1.32

ing

Jan. 1, following
·12

Date	Jan.	Feb.	March	Ap							ov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	.01	.55	.22	0	.01	0	0	.17	0	.07	.03	.01	1
2	.11	.02	0	.10	0	.01	0	0	.05	.15	0	0	2
3	.03	.10	0	.75	.02	1.30	.01	0	.84	.08	.19	.09	3
4	0	0	0	.04	0	.02	.39	0	.21	.06	1.92	.55	4
5	0	.04	0	.42	0	0	.09	0	.93	.13	.15	.51	5
6	0	.10	0	0	.19	.88	.06	.55	.03	0	0	.41	6
7	0	.34	0	0	.01	.20	.29	.01	.17	.65	.31	0	7
8	0	.03	0	0	0	.50	0	.26	0	.39	.09	.24	8
9	.07	.41	.01	.09	.03	0	.19	.37	.04	.09	.21	.03	9
10	0	.84	.01	.24	0	.14	0	.44	.02	.03	.29	.08	10
11	.19	.15	0	0	.27	.29	0	.23	.02	0	.34	.01	11
12	.49	.60	0	.07	0	.08	.14	.01	.40	0	.87	0	12
13	.05	.47	0	.07	0	0	.89	0	.13	.31	.23	0	13
14	0	0	.19	0	.08	.02	.52	.01	0	0	0	0	14
15	.18	.15	0	0	.01	1.17	.03	.70	.02	0	.45	.01	15
16	.40	.60	0	.21	.19	.01	.19	.39	0	0	0	.01	16
17	.93	.14	0	.67	.29	.36	.05	.57	.31	0	0	0	17
18	.10	.12	0	.25	.02	.14	.59	.36	.08	0	.04	0	18
19	.45	0	0	.21	0	.73	.67	.11	0	0	.77	0	19
20	.24	.35	0	.04	0	0	.01	1.45	.01	.03	.01	0	20
21	.01	.16	.09	0	0	.12	0	.05	0	0	.14	.02	21
22	.50	.09	.07	0	.04	.12	.02	.22	0	0	.01	0	22
23	.27	.14	0	.03	.14	.06	.03	0	0	0	.02	0	23
24	.40	0	0	.28	.31	.33	.36	0	0	0	1.02	.30	24
25	.19	.39	0	.03	.50	0	.08	0	0	0	.08	.11	25
26	.18	1.23	0	.36	.03	0	.21	0	0	0	.10	.13	26
27	.07	.14	0	.18	0	0	0	0	0	0	.54	.04	27
28	.80	.10	0	.05	.09	0	.46	0	0	.34	1.47	.11	28
29	.44		0	.11	.09	0	.26	0	.04	0	0	.07	29
30	.23	×	0	.01	.22	0	.23	0	0	.83	.02	0	30
31	0	×	0	×	0	×	0	0	×	0	×	0	31
TOTAL	·55 ~~6.34~~ 6.88	·22 7.26 6.93	— ~~.59~~ ·37	·01 ~~4.21~~ 4.22	— ~~2.54~~ 2.53	— 6.48	·17 ~~5.77~~ 5.94	— ~~5.90~~ 5.73	·07 ~~3.30~~ 3.37	·03 ~~3.16~~ 3.12	·01 ~~9.30~~ 9.28	·12 ~~2.73~~ 2.84	YEAR'S TOTAL 57.69 ~~57.58~~
*Days with ·01 in. or more.	23	24	~~6~~5	~~21~~22	~~19~~18	19	~~23~~24	~~17~~16	~~16~~17	13	24	18	223
*Days with ·04 in. or more.	~~20~~21	22	~~4~~3	18	12	15	~~18~~19	~~14~~13	~~11~~12	~~11~~10	19	~~12~~13	~~176~~177

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*)

P.T.O.

2893

Section **A** for the entry of D[redacted]Y FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at HAMER PASTURE RESERVOIR

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 760 ft.

(WD) ✓

23/2/32

Corr for WD r Fm. 906 sent 24.2.32 for value of 1.1.32

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ·12

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	.01	.55	.22	0	.01	0	0	.17	0	.07	.03	.01	1
2	.11	.02	0	.10	0	.01	0	0	.05	.15	0	0	2
3	.03	.10	0	.75	.02	1.30	.01	0	.84	.08	.19	.09	3
4	0	0	0	.04	0	.02	.39	0	.21	.06	1.92	.55	4
5	0	.04	0	.42	0	0	.09	0	.93	.13	.15	.51	5
6	0	.10	0	0	.19	.88	.06	.55	.03	0	0	.41	6
7	0	.34	0	0	.01	.20	.29	.01	.17	.65	.31	0	7
8	0	.03	0	0	0	.50	0	.26	0	.39	.09	.24	8
9	.07	.41	.01	.09	.03	0	.19	.37	.04	.09	.21	.03	9
10	0	.84	.01	.24	0	.14	0	.44	.02	.03	.29	.08	10
11	.19	.15	0	0	.27	.29	0	.23	.02	0	.34	.01	11
12	.49	.60	0	.07	0	.08	.14	.01	.40	0	.87	0	12
13	.05	.47	0	.07	0	0	.89	0	.13	.31	.23	0	13
14	0	0	.19	0	.08	.02	.52	.01	0	0	0	0	14
15	.18	.15	0	0	.01	1.17	.03	.70	.02	0	.45	.01	15
16	.40	.60	0	.21	.19	.01	.19	.39	0	0	0	.01	16
17	.93	.14	0	.67	.29	.36	.05	.57	.31	0	0	0	17
18	.10	.12	0	.25	.02	.14	.59	.36	.08	0	.04	0	18
19	.45	0	0	.21	0	.73	.67	.11	0	0	.77	0	19
20	.24	.35	0	.04	0	0	.01	1.45	.01	.03	.01	0	20
21	.01	.16	.09	0	0	.12	0	.05	0	0	.14	.02	21
22	.50	.09	.07	0	.04	.12	.02	.22	0	0	.01	0	22
23	.27	.14	0	.03	.14	.06	.03	0	0	0	.02	0	23
24	.40	0	0	.28	.31	.33	.36	0	0	0	1.02	.30	24
25	.19	.39	0	.03	.50	0	.08	0	0	0	.08	.11	25
26	.18	1.23	0	.36	.03	0	.21	0	0	0	.10	.13	26
27	.07	.14	0	.18	0	0	0	0	0	0	.54	.04	27
28	.80	.10	0	.05	.09	0	.46	0	0	.34	1.47	.11	28
29	.44		0	.11	.09	0	.26	0	.04	0	0	.07	29
30	.23	×	0	.01	.22	0	.23	0	0	.83	.02	0	30
31	0	×	0	×	0	×	0	0	×	0	×	0	31
TOTAL	·55 ~~6.34~~ 6.88	·22 7.26 6·93	— ~~.59~~ ·37	·01 ~~4.21~~ 4·22	— ~~2.54~~ 2·53	— 6.48	·17 ~~5.77~~ 5·94	— ~~5.90~~ 5·73	·07 ~~3.30~~ 3·37	·03 ~~3.16~~ 3·12	·01 ~~9.30~~ 9·28	·12 ~~2.73~~ 2·84	YEAR'S TOTAL 57·69 ~~57.58~~
*Days with ·01 in. or more.	23	24	~~6~~5	~~21~~22	~~19~~18	19	~~23~~24	~~17~~16	~~16~~17	13	24	18	223
*Days with ·04 in. or more.	~~20~~21	22	~~4~~3	18	12	15	~~18~~19	~~14~~13	~~11~~12	~~11~~10	19	~~12~~13	~~176~~177

40-9999

(Signed) Braddock

P.T.O.

*See Instruction 2 (*f*) on other side.

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

Station No. 2893

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at HAMER PASTURE RESERVOIR

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 760 ft.

1510

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ·08

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·12	·01	0	·08	·02	·02	·40	·11	0	·01	·01	·34	1
2	·49	·01	0	·57	·17	0	·07	·02	·95	·62	·21	·04	2
3	1·42	0	0	0	·27	0	·04	·04	1·40	·11	·27	·41	3
4	·09	0	0	0	0	0	·20	0	·13	0	0	·13	4
5	·08	·01	0	0	0	0	·20	0	·04	·07	·11	·02	5
6	1·21	·01	·13	·30	·08	0	·02	0	·22	0	0	0	6
7	1·20	0	·20	·61	·04	0	0	0	·27	·02	0	0	7
8	·11	0	·69	·21	0	0	0	0	·71	·37	·02	0	8
9	0	·01	0	·20	0	0	0	0	·18	·79	0	0	9
10	·09	·02	0	·69	·09	0	0	0	·03	·01	0	·07	10
11	·58	·02	0	·04	0	0	0	0	·92	·44	·01	·03	11
12	·03	·01	0	·07	·74	·03	·51	0	·09	0	·03	0	12
13	·48	0	0	0	·58	·02	·07	·06	·02	·50	0	0	13
14	0	·03	0	·11	·11	0	·09	·12	·34	·55	·02	·30	14
15	·11	0	0	·02	0	0	·05	·06	·03	·17	·06	·01	15
16	·01	0	0	·01	·61	0	0	0	0	·19	·13	·11	16
17	·27	0	0	·06	0	0	·05	·02	0	·22	·01	·15	17
18	0	0	0	·01	·06	0	·09	·08	·04	·87	0	0	18
19	0	0	0	0	·08	0	·01	0	·01	0	·02	0	19
20	0	0	0	·17	·05	0	·01	0	0	·56	0	0	20
21	0	0	0	·19	·47	0	·04	·40	0	·16	·09	·01	21
22	·09	0	·30	·10	·31	0	·20	·36	0	·70	·12	·04	22
23	·01	0	·20	·16	·06	0	·05	0	0	·14	1·04	·10	23
24	0	·02	·01	·08	·48	0	·21	0	0	·10	·15	·09	24
25	·05	0	0	·02	·02	·02	·53	0	·20	·03	·15	·02	25
26	0	·03	0	·14	·08	·02	·04	0	·12	1·16	·26	0	26
27	0	·01	·01	·10	·28	0	·54	0	·10	·41	·33	0	27
28	0	0	·41	·18	·36	·20	·37	0	0	·07	·09	·22	28
29	0	0	·07	·12	·13	0	·25	0	0	0	·01	·14	29
30	·08	×	·63	·16	·02	·10	·39	·35	·19	·98	·28	·40	30
31	·01 0	×	·17	·02 ×	·01	·40 ×	·15	·06	·011 ×	·18	·34 ×	·15	31 47·30
TOTAL	6·41 8·52	·18 ~~·79~~	·08 2·90 2·82	4·34 4·40	·02 ✓ 5·12	·79 ·44	4·[illegible]9 4·58	1·57 1·68	6·00 5·99	·01 ✓ 9·43	3·75 3·42	2·52 ·08 [illegible]	YEAR'S TOTAL 74 ~~44·34~~
*Days with ·01 in. or more.	19✓	~~12~~ 11	~~11~~ 12	25✓	~~24~~ 28	7✓	25✓	~~12~~ 21	~~20~~ 21	26✓	22✓	20✓	223✓
*Days with .04 in. or more.	~~16~~ 15	—	~~9~~ 10	~~21~~ 20	20✓	~~2~~ 3	22✓	~~10~~ 9	16✓	22✓	~~14~~ 16	~~15~~ 15	164✓

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) J. H. Braddock

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2893

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at HAMER PASTURE RESERVOIR

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 760 ft.

WD J.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following: 0

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	·08	·38	0	·07	·02	0	0	·36	·19	0	·34	0		1
2	·05	·77	·04	0	0	0	0	·02	·09	0	·33	0		2
3	·46	·01	·18	·28	0	·20	0	·11	0	0	0	0		3
4	0	·62	·39	0	·48	0	0	0	0	0	·02	0		4
5	·24	·23	·32	0	·14	0	0	·02	0	0	·02	0		5
6	·20	·20	·09	0	·10	0	0	0	0	0	·04	0		6
7	·03	·10	·02	0	·29	0	0	0	0	0	0	·03		7
8	·15	·42	·18	0	·10	0	·34	·05	0	·99	0	·01		8
9	·38	·15	·16	·18	·04	0	·27	·03	0	0	·02	·08		9
10	0	·57	0	·18	·07	0	·86	·06	0	·59	·21	0		10
11	·18	·03	0	0	0	·03	0	0	0	1·30	·20	0		11
12	0	0	0	0	0	0	·78	·01	0	·42	0	·01		12
13	·04	0	0	0	0	·17	·24	0	0	·10	0	·02		13
14	0	0	·03	0	·21	0	·18	·02	·03	·15	·33	0		14
15	·32	0	·10	0	·18	0	·08	·03	0	·02	·34	0		15
16	·24	0	·06	0	0	·04	·01	·11	0	·22	·31	0		16
17	·04	·05	·26	0	·05	·34	0	0	0	·32	·08	0		17
18	·05	0	·59	·02	0	·81	0	·18	·08	0	·12	0		18
19	·04	·05	·32	0	·13	·53	0	·09	0	0	·05	0		19
20	0	0	·33	·01	0	·12	0	·06	·34	0	·10	·02		20
21	0	·14	0	0	0	0	0	·40	0	0	0	·02		21
22	0	0	0	0	0	·01	0	·65	·13	·02	0	·01		22
23	0	0	0	0	0	0	0	·10	0	·09	0	0		23
24	0	0	0	·33	·11	0	0	·04	0	·06	0	0		24
25	0	·02	0	·22	·10	·16	0	0	·72	0	0	0		25
26	0	·29	0	·13	0	0	0	0	·16	0	0	·09		26
27	0	·34	0	·60	0	0	0	0	0	·40	·01	·01		27
28	0	·02	0	0	·01	0	0	0	0	·01	0	0		28
29	0		0	·11	0	0	·11	0	0	·27	0	0		29
30	0	X	0	·06	0	0	·08	0	0	·02	0	·03		30
31	38 ·04	X	·07 ·02	X ·02	·10	X	·36 ·25	·19 0	X	~~·34~~ ·36	X	·30		31
TOTAL	2·84 ~~2·54~~	4·01 ~~4·39~~	3·16 ~~3·09~~	2·14 ~~2·19~~	1 2·17	2·41	3·56 ~~3·20~~	2·17 ~~2·04~~	1·55 ~~1·74~~	5·68 ~~5·34~~	2·48 ~~2·52~~	·63	Year's Total 44 32·~~58~~	
*Days with ·01 in. or more.	16✓	~~18~~17	~~16~~17	12✓	~~16~~15	10	~~11~~12	18✓	8 7	~~17~~18	~~16~~15	12	~~140~~	169
*Days with ·04 in. or more.	15✓	~~14~~13	~~13~~14	~~10~~9	14	8	~~10~~11	12✓	~~4~~6	~~13~~14	~~10~~11	3	~~121~~	130

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) Braddwell

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2893

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 193~~4~~4.

W.D

Kept at HAMER PASTURE RESERVOIR

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 760 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following: 13

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	0	·01	0	0	0	0	0	·14	·01	·40	·02	0		1
2	·22	0	·05	0	0	0	0	·02	·08	·13	·13	·84		2
3	·02	·03	·14	0	·05	0	0	·54	·05	0	·24	·61		3
4	·18	·01	·02	0	0	0	0	·16	·10	·17	·10	·08		4
5	·21	0	·26	·06	·05	0	0	0	·01	·95	0	·75		5
6	0	0	·09	0	·09	0	0	·56	·01	·52	·06	·19		6
7	·01	0	·12	·12	·56	·05	0	·03	0	·41	0	·44		7
8	·38	·07	·23	·05	0	·03	0	0	0	·07	·31	·50		8
9	0	0	·02	·01	·12	·84	0	·09	·03	·17	·81	·04		9
10	·01	·08	·05	·02	0	0	0	·24	·02	·08	·34	·02		10
11	·01	0	·31	·07	0	0	0	·19	0	·38	·09	0		11
12	·13	0	·05	·61	0	0	0	·32	0	·03	·05	·16		12
13	·01	0	·04	·30	0	0	·03	·02	0	·06	0	·04		13
14	·51	0	0	·06	·14	0	·08	·04	0	·28	0	·01		14
15	·13	0	·09	0	·09	·01	0	0	0	·67	·06	·10		15
16	·57	·01	·18	0	·86	0	·01	·14	·42	·02	·01	·29		16
17	·58	0	·17	0	·17	0	·01	0	0	0	·04	·03		17
18	·56	0	·33	·01	·14	0	·28	0	·29	·05	0	·30		18
19	·35	0	·21	·19	·66	·16	0	·05	0	0	0	·24		19
20	0	·01	·14	0	·09	·46	0	·01	·35	·22	0	·10		20
21	0	0	·01	·18	·51	0	0	·10	·20	·22	·01	·05		21
22	·06	0	·01	0	·06	·63	0	·07	·05	·08	·01	0		22
23	·07	0	·02	0	·01	0	0	·12	·61	·14	·01	·01		23
24	·03	0	·15	·52	·01	0	·56	·06	·01	·25	·04	·04		24
25	0	·22	·06	·15	·01	·07	·02	0	·39	·22	0	0		25
26	·13	·12	0	·08	·02	0	·31	0	·31	·28	0	·43		26
27	·15	0	·04	·18	0	·15	·46	0	·26	·04	·04	·17		27
28	0	0	0	·17	0	·57	·44	0	·05	·41	·04	·36		28
29	0		0	·02	0	·15	·16	·24	0	·15	0	·59		29
30	0	×	0	0	0	0	·11	·75	·42	·10	0	·14		30
31	·08	×	0	×	0	×	·11	·41	×	·32	×	·06		31
TOTAL	+·01 4·41 ~~4·40~~	·55 ~~·56~~	2·79	2·80	3·64	3·12	+·14 2·72 ~~2·58~~	+·01 4·17 ~~4·30~~	+·40 4·06 ~~[illegible]~~	+·02 6·44 ~~6·42~~	2·39 ~~2·41~~	+·13 6·72 ~~6·59~~	Year's Total. 43·81 ~~43·68~~	
* Days with .01 in. or more.	2~~2~~ 3	~~9~~ 8	24	18	18	11	~~13~~ 14	22	20	28	1~~9~~ 8	2~~7~~ 8	23~~1~~ 2	
* Days with .04 in. or more.	16	4	19	14	14	9	~~9~~ 10	1~~8~~ 7	1~~4~~ 5	2~~4~~ 5	14	2~~3~~ 4	18~~0~~ 1	

40-9999

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) Braddock

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2893

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at HAMER PASTURE RESERVOIR

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

" Ground " Sea Level 760 ft.

rounded? WD

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ·32

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	·13	·04	·07	·03	·01	0	·20	0	0	·45	·25	·67		1
2	·66	·44	·05	·08	0	·05	·05	0	·16	·81	·19	·33		2
3	·02	·39	·04	0	0	·39	·03	0	·07	·19	·05	·45		3
4	·10	·71	·12	·12	0	·12	·56	0	·36	·01	·10	·24		4
5	0	·03	·10	0	0	·13	·07	0	·34	·30	·02	·06		5
6	0	·70	·14	·28	0	·46	·05	0	·24	·04	·19	·22		6
7	·02	0	·01	·08	0	·41	0	0	0	0	0	·01		7
8	·02	0	0	·26	0	·38	0	0	0	·31	·17	·33		8
9	0	0	0	·10	0	0	0	0	0	·37	·05	·75		9
10	·01	0	0	·50	0	·09	0	0	0	1·73	·14	·01		10
11	0	·08	·01	·35	0	·03	0	0	0	·51	·20	0		11
12	·30	·19	0	·01	0	·15	0	0	0	·46	·10	·03		12
13	0	·28	0	0	0	·80	0	0	·10	·02	·03	0		13
14	·13	·05	0	·09	·36	0	0	0	·16	·14	·04	0		14
15	·01	·01	0	·05	·09	·12	0	0	·16	·01	1·47	·28		15
16	0	2·03	0	·21	·10	·27	0	0	·58	·39	·14	·28		16
17	0	·40	·13	·25	·10	·25	·10	0	·88	0	·27	0		17
18	0	·04	·01	·39	·50	·24	·13	·02	·43	·06	·52	0		18
19	0	·06	0	·09	·08	·07	·38	0	·53	·43	·20	0		19
20	0	·10	0	·15	0	·36	·26	0	0	·13	·17	0		20
21	·01	·45	0	·34	0	·20	·12	0	0	0	·18	0		21
22	0	·15	·01	·02	0	·01	0	0	·99	·22	·08	·16		22
23	0	·06	·15	·09	0	0	0	0	·05	0	·02	0		23
24	·03	0	·83	·03	0	0	0	·50	·03	·32	0	0		24
25	·55	·40	·04	·01	0	0	0	0	2·21	·07	0	·23		25
26	·16	·02	·26	0	0	·26	0	0	0	0	·09	·07		26
27	0	0	0	0	0	0	·09	1·26	·57	·51	·30	·20		27
28	0	·06	0	0	0	·05	·38	0	·33	1·08	·59	·09		28
29	·04		0	0	·02	0	0	·03	·09	·52	·19	0		29
30	·01	✕	·04	0	0	0	0	·04	·22	·45	·10	·20		30
31	·10	✕	0	✕	0	✕	0	·31	✕	·65	✕	·10		31
	·04	·07	·03	·01	–	·20	–	–	·45	·25	·67	·32	Year's Total	
TOTAL	2·21 ~~2·20~~	6·72 ~~[illegible]~~	1·97 ~~[illegible]~~	3·61 ~~3·62~~	1·25 ~~1·26~~	5·04 ~~4·84~~	2·22 ~~[illegible]~~	2·16	8·95 ~~8·50~~	9·98 ~~10·18~~	6·27 ~~5·85~~	4·36 ~~[illegible]~~	~~[illegible]~~	54·74
* Days with .01 in. or more.	17	22	16	22	7 ~~8~~	22 ~~21~~	12 ~~13~~	6	21 ~~20~~	26	27	20	218	✓
* Days with .04 in. or more.	9	19	~~12~~ 11	17	6	20 ~~19~~	11 ~~12~~	4	20 ~~19~~	23	24	17	181	✓

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(*Signed*) J. Chaddock [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2893

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1936.

Kept at HAMER PASTURE RESERVOIR

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 760 ft.

Corrected for W.D. 6/2/37

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following
.61

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	.32	.03	.37	.04	0	.02	.02	.09	.01	0	0	.11		1
2	.01	.14	.03	.27	0	.05	0	.47	.06	0	.32	.45		2
3	.03	.05	.01	.03	0	.47	0	.14	.02	0	.05	.19		3
4	.01	0	0	0	0	.56	.04	.25	.84	0	0	.16		4
5	.43	.15	.19	0	0	.01	.02	.08	.53	0	.27	.35		5
6	.10	.05	.59	0	.07	0	.01	.29	.52	0	.13	.36		6
7	.09	0	.05	0	0	.01	.08	.49	.79	0	.15	0		7
8	0	0	.13	0	0	0	.42	0	1.09	0	.19	.36		8
9	.42	0	.20	0	0	0	0	0	.01	0	.56	.13		9
10	.27	0	.04	0	0	0	.02	0	.10	.01	.94	0		10
11	.12	0	0	0	0	0	.75	0	0	0	1.47	0		11
12	0	0	0	.06	0	.19	.29	.07	.03	0	.49	.01		12
13	0	0	0	.13	.07	.65	.74	.04	.58	.09	.31	.03		13
14	.01	0	0	.05	.03	.01	.15	0	.01	.45	.03	.61		14
15	0	0	0	.11	0	.38	.08	.12	.39	.16	.29	.83		15
16	.26	0	.02	.16	.02	.16	.10	.37	.09	0	.58	.10		16
17	.02	.04	.02	.07	.03	0	.03	0	0	.06	.91	.03		17
18	.12	.40	.04	.01	.01	0	.17	.16	0	1.02	.08	.25		18
19	0	.07	0	.03	0	.18	.28	.13	0	1.09	0	.01		19
20	.53	.40	.03	.01	0	.08	.17	.41	0	.12	0	0		20
21	.16	.08	0	.01	0	0	.02	0	0	.05	0	.03		21
22	.12	0	.02	.04	0	.07	0	0	0	.09	0	.01		22
23	.12	.38	.04	.01	.01	1.29	.20	0	0	.01	0	.03		23
24	0	.05	.14	.28	.06	0	.62	.03	0	.10	0	.01		24
25	.05	.06	0	.12	.45	0	0	.03	.12	.83	0	.10		25
26	.51	.02	.01	.10	0	0	.03	0	.37	.33	0	.03		26
27	.02	.39	.11	.03	0	0	.01	0	.40	.91	0	0		27
28	.81	.01	.02	0	0	0	0	0	.17	.49	0	0		28
29	.52	.55	.22	0	0	0	.09	0	0	0	.04	.15		29
30	.16	✗	.83	0	.70	.72	0	0	0	.13	.19	.09		30
31	.03 .35	✗ .27	.04 .04	✗	.02 101	✗ .02	.09 .35	.01 .02	✗	.74	✗ .11	.61 .08		31
TOTAL	5.27 ~~5.56~~	3.21 ~~2.87~~	2.82 ~~3.15~~	1.52 ~~1.56~~	2.08 ~~2.06~~	✓ 4.85	4.78 ~~4.77~~	3.21 ~~3.29~~	6.12 ~~6.18~~	6.68	7.11 ~~7.22~~	5.01 ~~4.31~~	Year's Total ~~52.39~~	52.66 ✓
* Days with .01 in. or more.	25	14	22	~~19~~ 18	~~11~~ 12	16	24	17	~~19~~ 18	18	~~18~~ 19	25	231 ✓	✓
* Days with .04 in. or more.	~~19~~ 18	~~14~~ 15	14	~~12~~ 11	6	12	~~17~~ 18	~~14~~ 13	14	16	~~17~~ 18	16	141 ✓	✓

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) Craddock [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2893

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937.

Kept at HAMER PASTURE RESERVOIR

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 760 ft.

NOT W D Ab

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	.06	.17	.10	—	—	—	.07	—	.44	—	—	.27		1
2	.43	.41	.10	.10	—	—	—	—	.02	—	—	.03		2
3	.01	.25	.07	.18	.07	.80	.07	—	—	—	—	.01		3
4	.33	.02	.09	.09	.21	.01	.03	—	—	—	—	.78		4
5	1.50	.01	.02	.02	—	.01	.03	—	.01	—	—	.02		5
6	.15	—	.03	.17	.09	—	—	.44	.06	—	.02	.08		6
7	.10	.21	—	.43	.09	.04	—	—	.08	—	—	—		7
8	—	.52	.01	.03	—	.13	.12	—	—	—	.03	.03		8
9	.03	.23	—	.05	.25	—	.58	.41	—	—	—	—		9
10	.03	.12	—	—	.01	.16	.04	.01	—	—	—	.15		10
11	—	—	.28	—	.08	—	.02	—	—	—	—	.02		11
12	.20	.22	.07	—	.06	.10	.08	.90	.32	—	—	.17		12
13	—	.27	.11	.04	—	.48	—	.18	.03	—	—	.26		13
14	—	.10	.13	—	—	—	—	.19	.13	.01	—	.16		14
15	.35	.53	—	.46	—	—	.45	—	.43	—	—	.05		15
16	.10	.65	.10	.75	.13	—	—	.21	.20	—	—	—		16
17	.08	.07	.28	.25	.02	.01	—	.03	.12	—	—	—		17
18	.30	.39	.18	.09	—	—	—	.35	.06	.01	.19	—		18
19	.05	.22	.04	.27	.06	.16	.04	.06	—	—	.51	—		19
20	.13	.16	—	.16	.53	.10	.03	—	—	—	.01	.20		20
21	.01	.08	—	.18	.02	—	.63	—	—	.11	—	.30		21
22	.04	—	.18	.06	.04	—	.31	—	—	.35	.06	.17		22
23	.09	—	.01	—	.50	—	.25	—	—	.38	.09	—		23
24	.08	.13	.15	—	.09	—	.05	—	.14	.19	—	.10		24
25	—	.55	—	—	—	—	—	.17	.07	.05	—	.06		25
26	—	.28	.07	—	.48	—	—	—	.02	—	—	.15		26
27	—	.74	—	.12	—	—	—	—	—	.30	—	—		27
28	—	.06	—	—	—	.09	—	—	—	.15	—	.01		28
29	.02		—	—	—	.03	—	—	—	.04	.21	—		29
30	.09	✕	—	—	—	.40	—	.08	—	.18	.66	.01		30
31	.20	✕	—	✕	—	✕	—	.10	✕	.14	✕	—	Year's Total	31
TOTAL	4.38	6.59	2.12	3.45	2.73	2.60	2.80	3.13	2.13	1.91	1.78	3.03	36.65	✓
* Days with .01 in. or more.	23	24	19	18	17	14	16	13	15	12	9	21	201	✓
* Days with .04 in. or more.	18	22	15	16	14	10	12	11	11	10	6	14	159	✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) J. Braddock [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2893

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

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Kept at HAMER PASTURE RESERVOIR

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Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 760 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	0	.06	0	.02	.01	.61	.12	.10	0	.09	.05	.31		1
2	.04	.09	0	.66	.07	.61	.02	0	0	1.34	.06	.38		2
3	.01	0	0	0	0	.04	.15	0	.20	1.70	.10	.05		3
4	.02	.01	0	.11	0	.02	.29	.75	0	.44	.14	1.23		4
5	.02	.02	0	.01	0	.06	.30	.61	.05	.39	.01	.10		5
6	.24	0	0	0	0	.05	.34	0	.10	.24	0	.04		6
7	.32	0	0	0	0	0	.54	.01	.24	.36	0	0		7
8	.45	.02	0	0	0	0	.37	0	0	1.57	0	.31		8
9	.16	.84	.26	0	0	.22	.36	.02	0	.09	0	.34		9
10	0	.12	.05	0	0	.04	.48	0	0	.16	0	.06		10
11	.17	.14	0	0	.05	.02	.09	.17	.02	.18	.07	.09		11
12	.36	0	0	0	.15	0	0	.06	0	1.54	.26	.01		12
13	0	.01	0	0	.03	0	.10	0	.08	.25	.25	.32		13
14	.36	.01	0	0	.14	0	.11	0	.05	.01	.21	.01		14
15	.45	0	.02	0	.01	0	.34	.43	0	.14	0	.25		15
16	.76	0	.12	0	.16	0	.18	.31	0	.05	.16	.17		16
17	0	0	0	0	.51	0	.10	.27	.08	.44	.04	0		17
18	.12	0	0	0	.07	.05	0	.54	0	.63	.36	0		18
19	0	0	0	0	0	0	0	.30	.06	.01	0	.09		19
20	.32	0	.03	0	0	0	0	.10	.09	0	.54	.02		20
21	0	0	.05	0	0	0	0	.07	.01	0	.06	0		21
22	.01	0	0	0	0	.32	0	0	0	0	.50	.03		22
23	0	0	0	.01	.28	.49	0	0	.08	0	.54	.01		23
24	.31	.09	.29	0	.08	.20	.09	.58	.03	.02	.22	0		24
25	.23	.40	.09	0	.02	.14	.58	.07	0	.46	.79	.12		25
26	.28	.81	.30	0	.10	.16	.01	.02	.04	.31	.21	.06		26
27	.54	.29	.01	0	.61	.74	.17	.30	.01	.02	.59	0		27
28	.59	.12	.22	0	.18	.67	.18	.10	.10	.03	.04	.16		28
29	.15		.34	0	1.16	.47	.21	0	0	.25	.12	.45		29
30	.43	✕	0	0	.07	.05	.04	0	.35	.01	.35	.27		30
31	.36	✕	.07	✕	.30	✕	0	0	✕	.20	✕	.96	Year's Total	31
TOTAL	6.70	3.03	1.85	.81	4.00	4.96	5.17	4.81	1.59	10.93	5.67	5.84	55.36	
* Days with .01 in. or more.	24	15	13	5	19	19	23	19	17	27	23	25	229	
* Days with .04 in. or more.	20	10	10	2	15	17	21	16	13	21	22	20	187	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) Braddock

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations — Station No. 2893

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939.

Kept at Hamer Pasture

in the County of Lancaster.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. - in.

„ Ground „ Sea Level 760 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	·42	-	·26	·03	-	-	·22	·09	·41	·03	-	·59		1
2	·10	-	·02	·10	-	-	·68	·87	·72	-	·03	·21		2
3	·04	-	-	·04	-	-	-	·17	·04	-	·07	·64		3
4	·13	-	·48	·38	·01	-	·59	-	-	·01	·04	·69		4
5	-	-	-	-	·29	-	·29	·08	-	·22	·37	·05		5
6	·90	·34	·01	-	-	-	·71	-	-	·01	·15	-		6
7	·28	·44	·28	-	·22	-	·11	-	-	-	·09	·43		7
8	·34	·13	·27	·03	-	-	·48	·04	-	·12	·17	·59		8
9	·12	·62	-	-	-	-	·06	·67	·01	·37	·03	·65		9
10	·09	·01	·04	-	-	·13	-	·09	·54	·20	·02	·12		10
11	·47	·13	·29	-	-	·15	-	·01	·05	-	-	·01		11
12	·32	·14	-	-	-	·11	-	-	·01	-	·04	-		12
13	·04	-	·01	·28	·12	·17	·05	-	·04	·03	·03	-		13
14	·78	-	-	·05	·47	·49	·56	-	-	·01	·19	-		14
15	·15	·09	·01	·64	·11	1·34	·14	-	-	-	·14	-		15
16	·17	-	·11	·02	·29	-	·01	-	-	-	·08	-		16
17	·80	·41	·01	·05	·07	·02	·02	-	-	·06	·07	-		17
18	·02	·26	·03	-	-	·10	·40	-	-	-	·78	-		18
19	·24	·01	·01	-	·01	·01	·19	-	-	-	·01	-		19
20	·05	-	-	-	-	·14	·09	·13	-	-	-	-		20
21	·14	·10	·65	·15	·02	-	-	-	·04	-	-	-		21
22	·11	·16	·16	·02	·02	-	·15	-	-	·03	·75	-		22
23	-	·46	·14	·27	-	·04	·03	-	-	·54	·19	·04		23
24	·02	·14	·11	·11	-	·02	-	-	-	·04	·01	-		24
25	·25	·16	·02	·01	-	·02	-	-	-	-	1·67	-		25
26	·02	·01	·04	-	-	-	-	1·65	-	·32	·73	·09		26
27	·06	1·57	·29	-	-	·63	·09	·05	-	·05	·35	·09		27
28	-	·12	·18	·02	-	·25	·69	-	-	-	·91	-		28
29	-		-	-	-	-	1·22	-	-	·19	·39	-		29
30	-	✕	-	-	-	·03	·15	-	-	-	·47	-		30
31	-	✕	-	✕	-	✕	·14	·01	✕	·01	✕	-		31
TOTAL	6·06	5·30	3·42	2·20	1·63	3·65	7·07	3·86	1·86	2·24	7·78	4·20	Year's Total 49·27	
* Days with .01 in. or more.	25	19	22	16	11	16	23	12	9	17	26	13	209	
* Days with .04 in. or more.	22	16	14	9	7	11	20	10	7	10	20	12	158	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) Haddock

[P.T.O.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations

Station No. 2893

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19340

Kept at Hamer Pasture Reservoir

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. – in.

„ Ground „ Sea Level 760 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	–	.12	–	.21	–	–	.02	–	.01	–	.78	.33		1
2	–	–	–	.25	–	–	.14	–	–	–	.57	.30		2
3	–	.05	–	.18	–	–	.09	–	–	.09	.08	.27		3
4	–	.08	–	.06	–	–	.12	–	.01	.25	.19	.29		4
5	–	.03	–	–	.14	–	.08	–	.01	.82	.06	.58		5
6	.09	.21	–	–	–	–	.05	–	–	.79	.04	.15		6
7	.17	.19	–	.26	.12	–	.01	.24	.12	.06	.02	–		7
8	.01	–	.02	.02	–	–	.02	.04	–	.24	.09	.33		8
9	–	–	.13	–	–	–	1.01	.21	.37	.62	1.45	.21		9
10	–	–	.12	–	–	–	.38	.51	.03	.13	.67	.82		10
11	–	s .02	.13	.07	–	.07	.07	–	–	–	1.63	–		11
12	–	–	.49	–	–	.01	.18	.04	.59	–	.37	–		12
13	–	s .03	.12	.03	–	–	.01	.13	.64	–	.06	.02		13
14	–	s .06	.01	.32	.21	–	.29	.09	.21	–	.08	.65		14
15	–	–	.05	.01	.12	.03	–	–	.06	.01	.07	.07		15
16	.02	–	.13	.14	–	–	.79	–	1.68	.28	.14	.08		16
17	–	.02	.62	.01	.11	–	.34	–	.15	–	.54	.01		17
18	.06	s .54	.18	.57	–	–	.01	.26	.21	.01	.01	.40		18
19	–	.55	.23	.02	–	–	.28	–	.36	–	.38	.01		19
20	–	.12	.08	.24	–	–	.10	.45	.21	.16	.19	–		20
21	–	–	.40	.02	–	.34	.05	.13	.01	.09	.63	–		21
22	–	.06	.09	–	.09	.07	–	.08	.45	.01	–	–		22
23	–	.08	.06	.14	.02	–	.21	–	.11	–	.16	–		23
24	.67	–	.11	.03	–	–	–	.01	.05	.03	–	.04		24
25	–	–	–	–	.01	.12	–	–	–	.08	–	–		25
26	.49	.13	.09	.06	.04	.07	.02	–	.01	–	.03	–		26
27	.45	.47	–	.14	.05	–	.45	–	–	–	.12	–		27
1.92 28	.70	.53	–	–	.28	–	–	.15	–	–	–	.08		28
29	.02	–	.36	.01	–	.35	.02	–	–	.03	–	.85		29
30	.01	✕	.01	.13	–	–	–	–	–	.47	.02	.30		30
31	.25	✕	.14	✕	.02	✕	–	.06	✕	.76	✕	.02		31
TOTAL	2.94	3.29	3.57	2.92	1.21	1.06	4.74	2.40	5.29	4.93	8.38	5.81	Year's Total 46.54 ✓	
* Days with .01 in. or more.	12	18	21	22	12	8	24	14	20	19	25	21	216 ✓	
* Days with .04 in. or more.	8	14	18	14	9	6	16	13	14	14	21	17	164 ✓	

s – snow

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) Braddock [P.T.O.

2894

Section **A** for the entry of Da
AIR MINISTRY.–

FOR OFFICIAL USE.
RGANIZATION.

FORM 1090.

REGISTI

Kept at Naden (Daily

in the County of Lancaste

Diameter of Funnel of Gauge 5

Height of top of Gauge above Ground

,, Ground ,, Sea Leve

THE MORNING MEASURE

An observer who does not conform to this
year in the space on the right of this p

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Jan. 1, following

2894

NADEN

1931—40

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Date	Jan.	Feb.	March	Ap							ov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·11	·02	–	·08	–	–	–	–	·07	·17	–	–	1
2	·04	·10	–	·71	·05	1·29	–	–	1·17	·04	·10	·15	2
3	–	–	–	·05	–	·01	·43	–	·32	·05	2·27	·46	3
4	–	·03	–	·36	–	–	·14	–	·75	·11	·08	·49	4
5	–	·16	–	–	·22	·96	·15	·68	·03	–	–	·38	5
6	–	·30	·03	–	·05	·26	·25	·01	·29	·68	·34	–	6
7	–	–	·07	–	–	·61	–	·25	–	·28	·14	·25	7
8	·08	·43	–	·10	·03	–	·18	·34	·13	·10	·27	·03	8
9	–	·80	–	·23	–	·10	–	·40	·01	·05	·30	·09	9
10	·11	·15	–	–	·22	·36	–	·21	·04	–	·35	–	10
11	·48	·52	–	·08	–	·05	·21	·01	·50	–	1·43	–	11
12	·03	·26	–	·03	–	–	·33	–	·03	·33	·14	–	12
13	–	–	·25	–	·06	–	·27	·05	–	–	–	–	13
14	·14	·18	–	–	·01	1·44	·14	·85	·01	–	·49	–	14
15	·39	·61	–	·22	·17	–	·22	·42	–	–	–	·04	15
16	·78	·09	–	·53	·37	·26	·09	·70	·30	–	–	–	16
17	·04	·05	–	·19	·02	·13	·63	·33	·08	–	·12	–	17
18	·44	–	–	·12	–	·74	·65	·12	–	–	·86	–	18
19	·24	·34	–	·02	–	–	·02	1·15	·01	·04	–	–	19
20	·01	·19	·10	–	–	·12	–	·05	–	–	·14	–	20
21	·62	·08	·07	–	·09	·13	·01	·16	–	–	–	–	21
22	·35	·13	–	·10	·30	·08	·04	–	–	–	·06	–	22
23	·36	–	–	·30	·45	·24	·35	–	–	–	1·17	·38	23
24	·15	·41	–	·06	·50	–	·09	–	–	–	·12	·10	24
25	·19	1·23	–	·30	1·10	–	·11	–	–	–	·10	·09	25
26	·05	·03	–	·48	–	–	–	–	–	–	·63	·02	26
27	·71	·09	–	·03	·11	–	·47	–	–	·33	1·65	·08	27
28	·67	·22	–	·11	·11	–	·19	–	–	–	–	·08	28
29	·24	X	–	·04	·29	–	·29	–	–	·81	–	–	29
30	–	X	–	–	–	–	–	–	·13	–	–	–	30
31	·60	X	–	X	–	X	·10	–	X	·04	X	·13	31
TOTAL	6·83	6·42	·52	4·14	3·15	6·77	5·36	5·73	3·87	3·03	10·76	2·77	YEAR'S TOTAL 59·35
*Days with ·01 in. or more.	23	23	5	21	18	16	23	16	16	13	20	15	209
*Days with ·04 in. or more.	21	20	4	18	15	15	21	14	11	13	20	13	185

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*See Instruction 2 (*f*) on other side.

(Signed) J. Stanley Diggle
per J.M.

[P.T.O.

2894

Section **A** for the entry of D FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 193 .

Kept at Naden (Daily Gauge)
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 760·74 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·11	·02	–	·08	–	–	–	–	·07	·17	–	–	1
2	·04	·10	–	·71	·05	1·29	–	–	1·17	·04	·10	·15	2
3	–	–	–	·05	–	·01	·43	–	·32	·05	2·27	·46	3
4	–	·03	–	·36	–	–	·14	–	·75	·11	·08	·49	4
5	–	·16	–	–	·22	·96	·15	·68	·03	–	–	·38	5
6	–	·30	·03	–	·05	·26	·25	·01	·29	·68	·34	–	6
7	–	–	·07	–	–	·61	–	·25	–	·28	·14	·25	7
8	·08	·43	–	·10	·03	–	·18	·34	·13	·10	·27	·03	8
9	–	·80	–	·23	–	·10	–	·40	·01	·05	·30	·09	9
10	·11	·15	–	–	·22	·36	–	·21	·04	–	·35	–	10
11	·48	·52	–	·08	–	·05	·21	·01	·50	–	1·43	–	11
12	·03	·26	–	·03	–	–	·33	–	·03	·33	·14	–	12
13	–	–	·25	–	·06	–	·27	·05	–	–	–	–	13
14	·14	·18	–	–	·01	1·44	·14	·85	·01	–	·49	–	14
15	·39	·61	–	·22	·17	–	·22	·42	–	–	–	·04	15
16	·78	·09	–	·53	·37	·26	·09	·70	·30	–	–	–	16
17	·04	·05	–	·19	·02	·12	·63	·33	·08	–	·12	–	17
18	·44	–	–	·12	–	·74	·65	·12	–	–	·86	–	18
19	·24	·34	–	·02	–	–	·02	1·15	·01	·04	–	–	19
20	·01	·19	·10	–	–	·12	–	·05	–	–	·14	–	20
21	·62	·08	·07	–	·09	·13	·01	·16	–	–	–	–	21
22	·35	·13	–	·10	·30	·08	·04	–	–	–	·06	–	22
23	·36	–	–	·30	·45	·24	·35	–	–	–	1·17	·38	23
24	·15	·41	–	·06	·50	–	·09	–	–	–	·12	·10	24
25	·19	1·23	–	·30	110	–	·11	–	–	–	·10	·09	25
26	·05	·03	–	·48	–	–	–	–	–	–	·63	·02	26
27	·71	·09	–	·03	·11	–	·47	–	–	·23	1·65	·08	27
28	·67	·22	–	·11	·11	–	·19	–	–	–	–	·08	28
29	·24	×	–	·04	·29	–	·29	–	–	·81	–	–	29
30	–	×	–	–	–	–	–	–	·13	–	–	–	30
31	·60	×	–	×	–	×	·10	–	×	·04	×	·13	31
TOTAL	6·83	6·42	·52	4·14	3·15	6·77	5·36	5·73	3·87	3·03	10·76	2·77	YEAR'S TOTAL 59·35
*Days with ·01 in. or more.	23	23.	5	21.	18	16	23.	16	16.	13	20	15	209
*Days with ·04 in. or more.	21.	20	4	18	15	15.	21.	14	11	13	20	13.	185

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) J. Stanley Diggle
per J.n.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2894

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Naden Filters Norden
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 760·74 ft.

Naden Filters (Daily Gauge)

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0.63	0.00	0.00	0.56	0.23	0.00	0.15	0.03	1.09	0.30	0.19	0.14	1
2	1.27	0.00	0.00	0.00	0.15	0.00	0.03	0.05	1.49	0.17	0.25	0.37	2
3	0.16	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.18	0.00	0.00	0.08	3
4	0.08	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.02	0.07	0.12	0.00	4
5	1.32	0.00	0.12	0.28	0.07	0.00	0.00	0.00	0.28	0.00	0.00	0.00	5
6	1.05	0.00	0.22	0.54	0.02	0.00	0.00	0.00	0.29	0.00	0.00	0.00	6
7	0.14	0.00	0.66	0.20	0.00	0.00	0.00	0.00	0.70	0.44	0.00	0.00	7
8	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.10	0.81	0.00	0.00	8
9	0.06	0.11	0.00	0.59	0.07	0.00	0.00	0.00	0.08	0.00	0.00	0.08	9
10	0.60	0.03	0.00	0.04	0.00	0.00	0.00	0.00	0.90	0.43	0.00	0.02	10
11	0.05	0.00	0.00	0.01	0.84	0.03	0.35	0.00	0.07	0.00	0.02	0.00	11
12	0.57	0.00	0.00	0.00	0.69	0.04	0.30	0.08	0.02	0.59	0.00	0.00	12
13	0.02	0.04	0.00	0.11	0.16	0.00	0.26	0.09	0.35	0.58	0.00	0.35	13
14	0.13	0.00	0.00	0.13	0.00	0.00	0.03	0.07	0.01	0.15	0.06	0.06	14
15	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.18	0.13	0.06	15
16	0.28	0.00	0.00	0.04	0.00	0.00	0.20	0.01	0.00	0.35	0.00	0.20	16
17	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.09	0.05	0.83	0.00	0.00	17
18	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.03	0.00	0.00	18
19	0.00	0.00	0.00	0.19	0.06	0.00	0.01	0.00	0.00	0.66	0.00	0.00	19
20	0.00	0.00	0.00	0.20	0.49	0.00	0.05	0.32	0.00	0.15	0.12	0.00	20
21	0.07	0.00	0.37	0.12	0.31	0.00	0.16	0.31	0.00	0.68	0.17	0.03	21
22	0.01	0.00	0.27	0.18	0.08	0.00	0.07	0.00	0.00	0.04	1.10	0.10	22
23	0.00	0.00	0.00	0.08	0.71	0.00	0.24	0.00	0.00	0.12	0.10	0.09	23
24	0.04	0.00	0.00	0.00	0.00	0.08	0.49	0.00	0.19	0.08	0.17	0.00	24
25	0.00	0.00	0.00	0.15	0.06	0.00	0.05	0.00	0.12	1.10	0.33	0.00	25
26	0.00	0.04	0.00	0.09	0.31	0.00	0.85	0.00	0.21	0.38	0.17	0.00	26
27	0.00	0.00	0.46	0.24	0.36	0.18	0.21	0.00	0.00	0.06	0.06	0.25	27
28	0.00	0.00	0.08	0.46	0.15	0.00	0.29	0.00	0.00	0.00	0.00	0.09	28
29	0.07	0.00	0.70	0.25	0.06	0.14	0.45	0.34	0.15	0.85	0.38	0.41	29
30	0.00	×	0.15	0.06	0.04	0.45	0.15	0.00	0.14	0.07	0.38	0.10	30
31	0.00	×	0.16	×	0.02	×	0.12	0.01	×	0.03	×	0.07	31
TOTAL	6 55	0.22	3.19	4.73	5.63	0.92	5.18	1.40	6 47	9 00	3.75	2.50	YEAR'S TOTAL 49.54
*Days with ·01 in. or more.	18	4	10	22	22	6	23	11	21	24	16	17	194
*Days with ·04 in. or more.	16	3	10	21	20	5	20	8	17	23	15	15	173

40-9999

*See Instruction 2 (*f*) on other side,

(Signed) J. Stanley Diggle Jr.

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2874

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Nadin Filters (Daily Gauge)

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. in.

,, Ground ,, Sea Level 760.74 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0.03	0.70	0.04	0.00	0.00	0.00	0.00	0.07	0.09	0.00	0.39	0.00		1
2	0.50	0.00	0.20	0.32	0.00	0.13	0.00	0.10	0.00	0.00	0.00	0.00		2
3	0.00	0.78	0.56	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.02	0.00		3
4	0.29	0.19	0.24	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00		4
5	0.20	0.20	0.09	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.06	0.00		5
6	0.01	0.14	0.01	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.02		6
7	0.16	0.48	0.04	0.00	0.05	0.00	0.17	0.05	0.00	0.78	0.00	0.00		7
8	0.40	0.17	0.15	0.07	0.03	0.00	0.19	0.02	0.00	0.00	0.01	0.08		8
9	0.00	0.39	0.00	0.31	0.08	0.00	0.87	0.00	0.00	0.61	0.25	0.00		9
10	0.17	0.00	0.00	0.00	0.00	0.02	0.03	0.00	0.00	1.40	0.24	0.00		10
11	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.01	0.00	0.31	0.00	0.06		11
12	0.02	0.00	0.00	0.00	0.00	0.17	0.32	0.00	0.00	0.14	0.00	0.04		12
13	0.00	0.00	0.01	0.00	0.20	0.00	0.22	0.04	0.00	0.20	0.29	0.00		13
14	0.22	0.00	0.08	0.00	0.02	0.00	0.09	0.06	0.00	0.00	0.42	0.00		14
15	0.28	0.00	0.07	0.00	0.00	0.03	0.00	0.11	0.00	0.29	0.31	0.00		15
16	0.08	0.05	0.25	0.02	0.02	0.42	0.17	0.00	0.00	0.29	0.05	0.00		16
17	0.03	0.04	0.88	0.00	0.00	0.66	0.00	0.22	0.11	0.00	0.05	0.00		17
18	0.02	0.02	0.30	0.00	0.13	0.55	0.00	0.09	0.00	0.00	0.03	0.00		18
19	0.00	0.00	0.30	0.01	0.00	0.04	0.00	0.08	1.02	0.00	0.14	0.03		19
20	0.00	0.15	0.00	0.00	0.00	0.02	0.00	0.42	0.00	0.00	0.00	0.00		20
21	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.53	0.06	0.00	0.00	0.02		21
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.08	0.00	0.00		22
23	0.00	0.00	0.00	0.40	0.05	0.00	0.00	0.02	0.00	0.09	0.00	0.00		23
24	0.00	0.16	0.00	0.22	0.11	0.09	0.00	0.00	0.69	0.00	0.00	0.00		24
25	0.00	0.34	0.00	0.17	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.12		25
26	0.00	0.38	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00		26
27	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00		27
28	0.00	0.00	0.00	0.07	0.00	0.00	0.09	0.00	0.00	0.23	0.00	0.00		28
29	0.00		0.00	0.02	0.00	0.00	0.11	0.00	0.00	0.01	0.00	0.09		29
30	0.04	×	0.00	0.03	0.02	0.00	0.37	0.00	0.00	0.44	0.00	0.34		30
31	0.47	×	0.10	×	0.00	×	0.30	0.24	×	0.24	×	0.00		31
TOTAL	2.92	4.21	3.32	2.22	1.77	2.13	3.35	2.21	2.02	5.46	2.26	0.80	Year's Total 32.67	
*Days with ·01 in. or more.	16	16	16	12	15	10	13	16	6	15	13	9	157	
*Days with .04 in. or more.	11	14	14	8	10	7	12	13	6	14	10	8	125	

P. Pro. HEYWOOD & MIDDLETON WATER BOARD

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) James Entwistle

MANAGER

[P. T. O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2894

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Naden Filter. Daily Guage

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. in.

,, Ground ,, Sea Level 760·74 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·22	0·00	0·01	0·00	0·00	0·00	0·00	0·02	0·10	0·06	0·08	0·73		1
2	0·00	0·02	0·16	0·00	0·01	0·00	0·00	0·67	0·05	0·00	0·34	0·77		2
3	0·19	0·00	0·02	0·00	0·00	0·00	0·00	0·06	0·01	0·25	0·12	0·10		3
4	0·17	0·00	0·23	0·07	0·08	0·00	0·00	0·02	0·03	1·02	0·00	1·02		4
5	0·00	0·00	0·11	0·00	0·08	0·00	0·00	0·68	0·00	0·43	0·02	0·16		5
6	0·00	0·00	0·08	0·09	0·53	0·09	0·00	0·03	0·00	0·45	0·00	0·32		6
7	0·34	0·08	0·19	0·05	0·00	0·11	0·00	0·00	0·00	0·10	0·48	0·47		7
8	0·00	0·00	0·02	0·00	0·18	0·70	0·00	0·05	0·02	0·18	0·70	0·02		8
9	0·00	0·09	0·19	0·00	0·00	0·00	0·00	0·25	0·00	0·02	0·30	0·03		9
10	0·00	0·00	0·26	0·03	0·00	0·00	0·00	0·24	0·00	0·45	0·02	0·00		10
11	0·12	0·00	0·01	0·60	0·00	0·00	0·00	0·32	0·00	0·01	0·03	0·14		11
12	0·00	0·00	0·01	0·28	0·00	0·00	0·02	0·00	0·00	0·09	0·00	0·04		12
13	0·40	0·00	0·00	0·05	0·08	0·00	0·08	0·05	0·00	0·33	0·00	0·02		13
14	0·18	0·00	0·18	0·00	0·08	0·01	0·00	0·00	0·00	0·69	0·06	0·12		14
15	0·66	0·00	0·19	0·00	0·98	0·00	0·02	0·15	0·14	0·02	0·00	0·30		15
16	0·72	0·00	0·18	0·00	0·23	0·00	0·00	0·00	0·00	0·00	0·02	0·06		16
17	0·45	0·00	0·31	0·01	0·18	0·00	0·28	0·00	0·31	0·09	0·00	0·30		17
18	0·30	0·00	0·22	0·21	0·70	0·28	0·00	0·03	0·00	0·00	0·00	0·30		18
19	0·00	0·00	0·21	0·00	0·08	0·37	0·00	0·00	0·52	0·25	0·00	0·02		19
20	0·00	0·00	0·00	0·20	0·57	0·00	0·00	0·12	0·20	0·20	0·00	0·00		20
21	0·10	0·00	0·03	0·00	0·02	0·73	0·00	0·11	0·09	0·12	0·00	0·00		21
22	0·09	0·00	0·00	0·00	0·00	0·00	0·00	0·14	0·72	0·14	0·02	0·00		22
23	0·02	0·00	0·15	0·59	0·01	0·00	0·57	0·07	0·00	0·30	0·04	0·06		23
24	0·00	0·26	0·04	0·15	0·00	0·04	0·00	0·00	0·40	0·27	0·00	0·00		24
25	0·11	0·18	0·00	0·10	0·01	0·00	0·36	0·00	0·33	0·36	0·00	0·49		25
26	0·14	0·00	0·02	0·13	0·00	0·18	0·36	0·00	0·29	0·12	0·01	0·08		26
27	0·00	0·00	0·00	0·12	0·00	0·46	0·47	0·00	0·02	0·28	0·04	0·36		27
28	0·00	0·00	0·00	0·00	0·00	0·16	0·12	0·23	0·00	0·18	0·00	0·84		28
29	0·00		0·00	0·00	0·00	0·00	0·05	0·70	0·42	0·25	0·00	0·14		29
30	0·09	×	0·00	0·00	0·00	0·00	0·06	0·25	0·48	0·21	0·00	0·04		30
31	0·01	×	0·00	×	0·00	×	0·28	0·09	×	0·04	×	0·13		31
TOTAL	4·31	0·63	2·82	2·68	3·82	3·13	2·67	4·28	4·13	6·85	2·28	7·86	Year's Total 44·66	
*Days with ·01 in. or more.	18	5	22	15	16	11	12	21	17	28	15	26	206	
*Days with ·04 in. or more.	16	4	15	13	12	10	10	17	13	25	9	22	166	

† Spare column, no entries required.

(Signed) James Entwistle

MANAGER.

[P.T.O.

40-9999

*See Instruction 2 (*f*) on other side.

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

Daily Gauge Station No. 2894

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Naden Filters. Naden. Norden.

in the County of Lancaster.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft. 12 in.

,, Ground ,, Sea Level 760.74 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	0.70	0.48	0.03	0.07	-	0.02	0.09	-	0.13	1.09	0.15	0.33		1
2	0.00	0.24	0.06	-	-	0.31	0.07	-	0.05	0.18	0.07	0.44		2
3	0.09	0.90	0.14	0.10	-	0.05	0.60	-	0.33	0.01	0.10	0.30		3
4	-	0.02	0.11	0.01	-	0.15	0.07	-	0.29	0.40	-	0.09		4
5	-	0.68	0.12	0.29	-	0.19	0.02	-	0.23	0.03	0.24	0.29		5
6	-	-	-	0.08	-	0.32	-	-	-	-	-	-		6
7	-	-	-	0.20	-	0.20	-	-	-	0.24	0.12	0.30		7
8	-	-	-	0.12	-	-	-	-	-	0.40	0.09	0.63		8
9	-	-	-	0.47	-	0.06	-	-	-	1.79	0.11	-		9
10	-	0.05	-	0.32	-	-	-	-	-	0.49	0.14	-		10
11	0.48	0.18	-	-	-	0.24	-	-	-	0.42	0.08	-		11
12	-	0.31	-	-	-	0.56	-	-	0.10	-	-	-		12
13	0.14	0.05	-	0.13	0.34	-	-	-	0.17	0.13	-	-		13
14	-	-	-	0.06	0.06	0.05	-	-	0.13	----	1.47	0.32		14
15	-	2.23	-	0.41	0.09	-	-	-	0.78	0.39	0.08	0.42		15
16	-	0.42	0.12	0.35	0.12	0.41	0.10	-	0.81	0.00	0.18	-		16
17	-	0.02	-	0.38	0.55	0.26	0.32	-	0.40	0.06	0.40	-		17
18	-	0.04	-	0.07	0.10	0.04	0.19	-	0.67	0.49	0.17	-		18
19	-	0.12	-	0.15	-	0.43	0.32	-	-	0.15	0.24	-		19
20	-	0.55	-	0.44	-	0.23	0.05	-	-	-	0.08	-		20
21	-	0.19	-	0.05	-	-	-	-	1.23	0.23	0.09	0.23		21
22	-	0.18	0.18	0.26	-	-	-	-	0.09	-	-	-		22
23	0.03	-	0.85	0.03	-	-	-	0.32	0.02	0.38	-	-		23
24	0.61	0.39	0.04	0.01	-	-	-	-	2.01	0.05	-	0.13		24
25	0.12	0.01	0.24	-	-	0.11	-	-	-	-	0.13	0.03		25
26	-	-	-	-	-	-	0.07	1.38	0.63	0.59	0.23	0.27		26
27	-	0.06	-	-	0.02	0.03	0.42	-	0.25	1.16	0.67	0.05		27
28	0.08	0.11	-	-	0.02	-	-	-	0.10	0.58	0.08	-		28
29	-	X	0.03	-	-	-	-	0.05	0.30	0.35	0.10	0.25		29
30	0.12	☒	-	-	-	0.19	-	0.35	0.23	0.74	0.62	0.09		30
31	0.09	☒	0.01	☒	-	☒	-	-	☒	0.28	☒	0.45	Year's Total	31
TOTAL	2.46	7.23	1.93	4.00	1.30	3.85	2.32	2.10	8.95	10.63	5.64	4.62	55.03	
* Days with .01 in. or more.	10	21	12	21	8	19	12	4	21	24	23	17	192	
* Days with .04 in. or more.	9	18	9	18	6	18	11	4	20	22	23	16	174	

F. Pro. HEYWOOD & MIDDLETON WATER BOARD.

40-9999.

† Spare column, no entries required.

(Signed) .... [P.T.O.

MANAGER.

* See Instruction 2 (f) on other side.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2894

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1936

Kept at Naden Filters, Norden.

in the County of Lancaster.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. - in.

,, Ground ,, Sea Level 760.74 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	0.01	0.16	0.02	0.24	-	-	-	0.50	0.09	-	0.33	0.46		1
2	0.04	0.08	-	-	-	0.33	-	0.16	0.05	-	0.04	0.20		2
3	-	-	-	-	-	0.33	0.02	0.19	1.54	-	-	0.12		3
4	0.40	0.22	0.31	-	-	-	-	0.07	0.40	-	0.26	0.34		4
5	0.08	0.04	0.76	-	0.01	0.01	-	0.45	0.49	-	0.08	0.32		5
6	0.09	-	0.05	-	-	-	0.06	0.55	0.85	-	0.17	-		6
7	-	-	0.19	-	-	-	0.41	-	1.13	-	0.21	0.36		7
8	0.46	-	0.33	-	-	-	-	-	0.02	-	0.54	0.12		8
9	0.31	-	0.04	-	-	-	0.29	-	0.08	-	0.78	-		9
10	0.14	-	-	-	-	-	1.00	-	-	-	1.25	-		10
11	-	-	-	0.02	-	0.16	0.31	0.07	0.06	-	0.55	0.05		11
12	-	-	-	0.10	0.05	0.72	0.87	-	0.48	0.07	0.20	0.01		12
13	0.03	-	-	0.07	0.03	-	0.13	-	-	0.46	0.02	0.57		13
14	-	-	-	0.09	-	0.39	0.02	0.16	0.26	0.14	0.28	0.64		14
15	0.26	-	-	0.12	-	0.14	0.12	0.37	0.07	-	0.56	0.06		15
16	0.03	0.13	-	0.03	-	-	0.02	-	-	0.04	0.79	-		16
17	0.12	0.33	0.02	0.04	-	-	0.13	0.20	-	1.02	0.07	0.24		17
18	-	0.07	-	0.03	-	0.17	0.40	0.19	-	1.01	-	-		18
19	0.23	0.34	0.05	0.02	-	0.05	0.20	0.54	-	0.15	-	-		19
20	0.24	0.08	-	-	-	-	-	-	-	0.06	-	-		20
21	0.11	-	-	0.03	-	0.04	-	-	-	0.08	-	-		21
22	0.28	0.28	0.07	-	-	1.38	0.26	-	-	-	-	0.06		22
23	-	0.04	0.18	0.32	0.04	-	0.76	0.02	-	0.09	-	-		23
24	0.07	0.03	-	0.10	0.17	-	-	-	0.12	1.00	-	0.04		24
25	0.50	-	-	0.05	-	-	0.04	-	0.32	0.40	-	0.02		25
26	0.03	0.41	0.04	0.02	-	-	-	-	0.24	0.90	-	-		26
27	1.08	0.01	-	-	-	-	-	-	0.26	0.41	-	-		27
28	0.15	0.44	0.15	-	-	-	0.09	-	-	-	0.02	0.15		28
29	0.13	0.19	1.01	-	0.42	0.67	-	-	-	0.15	0.18	0.09		29
30	0.36	✕	0.03	-	0.39	0.01	0.40	-	-	0.64	0.13	0.07		30
31	-	✕	0.04	✕	0.06	✕	0.05	0.01	✕	-	✕	0.71		31
													Year's Total	
TOTAL	5.15	2.85	3.29	1.28	1.17	4.40	5.58	3.48	6.46	6.62	6.46	4.63	51.37	✓
* Days with .01 in. or more.	23	16	16	15	8	13	20	14	17	16	19	20	197	✓
* Days with .04 in. or more.	19	14	12	9	6	11	17	12	16	16	17	18	167	✓

† Spare column, no entries required.

*See Instruction 3 (f) on other side.

(*Signed*) James Entwistle [P.T.O.

COPY FOR OFFICIAL USE

Station No. 2894

Section **A** for the entry of Daily Observations

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937.

Kept at Naden Filters,

in the County of Lancaster,

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 760.74 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0.04	0.12	0.07	–	–	–	0.08	–	0.40	–	–	0.25		1
2	0.40	0.39	0.08	0.27	–	–	–	–	0.02	–	–	–		2
3	–	0.30	0.06	0.12	0.05	0.87	0.23	–	–	–	–	0.03		3
4	0.35	0.02	0.02	0.11	0.16	–	0.03	–	–	–	–	0.78		4
5	1.50	–	0.04	–	–	0.02	0.02	–	–	–	–	0.03		5
6	0.08	–	0.04	0.20	0.10	–	–	0.50	0.08	–	0.02	0.03		6
7	0.06	0.16	–	0.40	0.05	0.03	–	–	0.09	–	–	–		7
8	–	0.54	–	0.02	–	0.14	0.19	–	–	–	0.01	–		8
9	0.02	0.21	–	0.07	0.32	–	0.47	0.28	–	–	–	–		9
10	–	0.16	–	–	–	0.32	0.03	–	–	–	–	0.32		10
11	–	–	0.18	–	0.02	–	0.01	–	–	–	–	–		11
12	0.24	0.45	0.09	–	0.04	0.11	0.07	0.53	0.28	–	–	0.28		12
13	–	0.23	0.05	–	–	0.55	–	0.13	–	–	–	0.23		13
14	–	0.12	0.12	–	–	–	–	0.26	0.20	0.03	–	0.17		14
15	0.30	0.59	–	0.45	–	–	0.40	–	0.45	–	–	0.01		15
16	0.07	0.55	0.12	0.95	0.02	–	–	0.28	0.25	–	–	0.02		16
17	0.05	0.05	0.29	0.36	0.02	–	–	0.02	0.12	–	–	–		17
18	0.34	0.42	0.14	0.09	–	–	–	0.50		–	0.29	–		18
19	0.18	0.32	0.08	0.30	–	0.14	0.02	0.04		–	0.58	–		19
20	0.13	0.25	–	0.13	0.46	0.09	0.10	–		–	–	0.23		20
21	–	0.11	–	0.15	0.02	–	0.58	–		0.14	–	0.29		21
22	0.03	–	0.17	0.04	0.04	–	0.26	–		0.46	0.28	0.21		22
23	0.16	–	–	–	0.61	–	0.29	–		0.34	0.09	–		23
24	0.10	0.16	0.17	–	0.06	–	0.04	–	0.17	0.28	–	0.12		24
25	–	0.60	–	–	–	–	–	0.19	0.02	0.04	–	0.05		25
26	–	0.29	0.05	–	0.46	–	–	–	0.08	–	–	0.07		26
27	–	0.28	–	0.12	–	–	–	–		0.30	–	–		27
28	–	0.01	–	–	–	0.10	–	–		0.19	–	–		28
29	0.01	×	–	–	–	0.02	–	–		0.02	0.20	–		29
30	0.05	×	–	–	–	0.42	–	0.13		0.19	0.69	0.02		30
31	0.20	×	–	×	–	×	–	0.12	×	0.24	×	–		31
TOTAL	4.31	6.33	1.77	3.79	2.43	2.81	2.82	2.98	2.16	2.23	2.16	3.14	Year's Total 36.93	✓ ✓
* Days with .01 in. or more.	20	23	17	16	15	12	16	12	12	11	8	18	180	✓ ✓
* Days with .04 in. or more.	17	21	16	15	11	9	11	11	10	9	6	13	149	✓ ✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) .... [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2894

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938.

Kept at Naden Filters, Norden.

in the County of Lancaster.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. — in.

,, Ground ,, Sea Level 760.74 ft.

Totals

w.g.h.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	—	0.02	—	—	—	0.63	0.03	0.14	—	0.09	0.18	0.25		1
2	0.01	0.03	—	0.66	0.04	0.63	0.01	—	—	1.63	0.22	0.32		2
3	—	—	—	—	—	0.02	0.18	—	0.15	1.71	0.30	0.08		3
4	0.01	—	—	0.12	—	0.02	0.10	1.18	—	0.40	0.37	1.19		4
5	0.03	0.02	—	0.05	—	0.11	0.46	0.07	0.11	0.54	—	0.08		5
6	0.23	—	—	—	—	0.04	0.40	—	0.10	0.37	—	0.05		6
7	0.40	—	—	—	—	—	0.62	—	0.18	0.33	—	—		7
8	0.49	—	—	—	—	—	0.35	—	—	1.44	—	0.34		8
9	0.17	0.63	0.18	—	—	0.26	0.17	—	—	0.07	—	0.35		9
10	—	0.09	0.03	—	—	0.05	0.72	—	—	0.12	—	0.06		10
11	0.19	0.08	—	—	0.05	0.03	0.15	0.28	0.01	0.18	—	0.05		11
12	0.42	—	—	—	0.21	—	—	—	—	1.75	0.34	—		12
13	—	0.03	—	—	0.05	—	0.09	—	0.07	0.29	0.26	0.44		13
14	0.34	0.01	—	—	0.18	—	0.11	—	0.03	—	0.12	—		14
15	0.29	—	0.02	—	—	—	0.41	0.41	—	0.11	—	0.32		15
16	0.69	—	0.10	—	0.10	—	0.18	0.26	—	0.10	0.23	0.21		16
17	—	—	—	—	0.54	—	0.17	0.27	0.09	0.51	0.03	0.04		17
18	0.12	—	—	—	0.06	0.08	—	0.67	—	0.56	0.41	—		18
19	—	—	—	—	—	0.02	—	0.30	0.19	—	—	0.04		19
20	0.33	—	0.02	—	—	—	—	0.04	0.15	—	0.53	—		20
21	—	—	0.01	—	—	—	—	0.08	0.01	—	0.06	—		21
22	—	—	—	0.01	—	0.31	—	—	—	—	0.52	0.02		22
23	—	—	—	—	0.26	0.62	—	—	0.07	—	0.65	—		23
24	0.38	0.11	0.25	—	0.03	0.30	—	0.65	0.01	0.02	0.17	—		24
25	0.16	0.44	0.11	—	0.01	0.19	0.24	0.02	—	0.54	0.79	0.12		25
26	0.29	0.56	0.33	—	0.13	0.26	—	0.02	0.02	0.33	0.20	0.06		26
27	0.55	0.26	—	—	0.41	0.46	0.29	0.21	—	—	0.56	—		27
28	0.32	0.12	0.19	—	0.20	0.99	0.17	0.12	0.08	0.05	0.04	0.13		28
29	0.16		0.19	—	1.13	0.44	0.32	—	—	0.28	0.09	0.48		29
30	0.41	✕	—	—	0.15	0.04	0.04	—	0.48	0.02	0.43	0.24		30
31	0.30	✕	0.02	✕	0.38	✕	—	—	✕	0.64	✕	0.96		31
TOTAL	6.29	2.40	1.45	0.84	3.93	5.50	5.21	4.72	1.75	12.08	6.50	5.83	Year's Total 56.50	✓
* Days with .01 in. or more.	22	13	12	4	17	20	21	16	16	24	21	22	208	✓
* Days with .04 in. or more.	19	8	8	3	15	16	19	14	11	22	20	21	176	✓

† Spare column, no entries required.

*See Instruction 3 (f) on other side.

(*Signed*) .... [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2894

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939.

Kept at Naden, Norden Rochdale

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 7½ in.

„ Ground „ Sea Level 760.74 ft.

Total

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	**Jan.**	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0.47	-	0.25	0.10	-	-	0.08	0.13	0.13	0.02	-	0.54		1
2	0.08	-	-	0.11	-	-	0.78	0.71	0.80	-	0.03	0.26		2
3	0.02	-	-	0.09	-	-	-	0.22	0.07	-	0.10	0.70		3
4	0.10	-	0.45	0.32	-	-	0.48	-	-	0.05	0.03	0.71		4
5	-	-	-	-	0.02	-	0.32	0.05	-	0.33	0.38	0.05		5
6	0.94	0.40	0.02	-	0.33	-	0.57	-	-	-	0.09	-		6
7	0.28	0.46	0.22	-	-	-	0.08	-	-	-	0.07	0.45		7
8	0.26	0.15	0.23	0.02	0.14	-	0.50	0.10	-	0.10	0.35	0.64		8
9	0.11	0.62	-	-	-	-	0.06	0.65	-	0.46	0.03	0.63		9
10	0.16	0.01	0.05	-	-	0.16	-	0.04	0.57	0.23	0.04	0.17		10
11	0.42	0.09	0.36	-	-	0.21	-	0.03	0.02	-	-	-		11
12	0.34	0.17	-	-	-	0.10	-	-	-	-	-	-		12
13	0.06	-	-	0.29	0.20	0.26	0.06	-	0.06	0.03	0.02	-		13
14	0.86	-	-	0.03	0.54	0.56	0.38	-	-	-	0.27	-		14
15	0.10	0.10	-	0.73	0.05	1.52	0.16	-	-	-	0.12	-		15
16	0.17	-	0.12	0.04	0.25	-	0.05	-	-	-	0.10	-		16
17	0.82	0.40	-	-	0.05	0.07	-	-	-	0.04	0.09	-		17
18	-	0.25	0.04	-	-	0.14	0.31	-	-	-	0.83	-		18
19	0.27	-	-	-	-	-	0.18	-	-	-	-	-		19
20	0.09	-	-	-	-	0.22	0.11	0.06	-	-	0.02	-		20
21	0.12	0.14	0.63	0.14	0.04	-	-	0.35	0.03	-	-	-		21
22	0.13	0.25	0.21	0.04	-	-	0.10	-	-	0.02	0.90	-		22
23	-	0.61	-	0.24	-	-	0.02	-	-	0.58	0.17	0.03		23
24	0.01	0.17	-	0.01	-	0.03	0.01	-	-	0.10	0.03	-		24
25	0.19	0.18	0.02	0.03	-	0.04	0.02	-	-	-	1.78	-		25
26	0.01	0.03	-	-	-	-	-	0.81	-	0.24	0.63	0.04		26
27	0.03	1.84	0.24	-	-	0.64	0.10	0.06	-	0.02	0.29	0.08		27
28	-	0.14	0.16	-	-	0.30	0.85	-	-	-	0.99	-		28
29	-	-	-	-	-	-	0.34	-	-	0.15	0.35	-		29
30	-	✕	-	-	-	0.07	0.14	-	-	-	0.52	-		30
31	-	✕	-	✕	-	✕	0.14	0.03	✕	-	✕	-		31
TOTAL	6.04	6.01	3.00	2.19	1.62	4.32	6.84	2.24	1.68	2.37	8.23	4.30	Year's Total 49.84	
* Days with .01 in. or more.	24	18	14	14	9	14	24	13	7	14	25	12	188	
* Days with .04 in. or more.	20	16	13	10	8	13	21	11	5	10	19	11	157	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) H. Entwistle

[P.T.O.

COPY FOR OFFICIAL USE

Section A for the entry of Daily Observations — Station No. 2894

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1940.

Kept at Naden Filters

in the County of Lancaster

Diameter of Funnel of Gauge 5" in.

Height of top of Gauge above Ground — ft. 10½ in.

,, Ground ,, Sea Level 760·74 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·00	0·02	0·00	0·33	0·00	0·00	0·01	0·00	0·00	0·00	0·88	0·35		1
2	0·00	0·00	0·00	0·28	0·00	0·00	0·17	0·00	0·00	0·00	0·64	0·36		2
3	0·01	0·05	0·00	0·18	0·00	0·00	0·11	0·00	0·00	0·04	0·08	0·28		3
4	0·00	0·06	0·00	0·08	0·00	0·00	0·10	0·00	0·00	0·24	0·20	0·35		4
5	0·00	0·00	0·00	0·00	0·17	0·00	0·04	0·00	0·01	0·97	0·04	0·65		5
6	0·08	0·25	0·00	0·00	0·00	0·00	0·06	0·00	0·00	0·65	0·03	0·26		6
7	0·11	0·26	0·00	0·27	0·08	0·00	0·00	0·29	0·12	0·07	0·00	0·00		7
8	0·00	0·00	0·02	0·12	0·00	0·00	0·00	0·05	0·00	0·37	0·10	0·38		8
9	0·00	0·00	0·17	0·00	0·00	0·00	0·81	0·25	0·46	0·77	1·51	0·24		9
10	0·00	0·00	0·05	0·00	0·00	0·00	0·51	0·58	0·00	0·17	0·66	0·84		10
11	0·00	0·02	0·11	0·05	0·00	0·05	0·10	0·00	0·00	0·00	1·83	0·12		11
12	0·00	0·00	0·45	0·00	0·00	0·00	0·10	0·09	0·69	0·00	0·33	0·00		12
13	0·00	0·00	0·09	0·03	0·00	0·00	0·00	0·14	0·61	0·00	0·08	0·00		13
14	0·00	0·10	0·06	0·25	0·12	0·00	0·14	0·12	0·22	0·00	0·12	0·67		14
15	0·00	0·00	0·03	0·00	0·12	0·08	0·00	0·00	0·02	0·00	0·06	0·07		15
16	0·02	0·00	0·14	0·16	0·00	0·00	1·17	0·00	1·86	0·33	0·05	0·09		16
17	0·00	0·00	0·59	0·03	0·07	0·00	0·30	0·00	0·17	0·00	0·68	0·00		17
18	0·04	0·16	0·21	0·38	0·00	0·00	0·00	0·35	0·27	0·02	0·02	0·42		18
19	0·00	0·22	0·31	0·10	0·00	0·00	0·37	0·00	0·39	0·00	0·39	0·00		19
20	0·00	0·00	0·07	0·28	0·00	0·00	0·03	0·45	0·22	0·17	0·20	0·00		20
21	0·00	0·00	0·40	0·00	0·00	0·37	0·04	0·04	0·00	0·03	0·65	0·00		21
22	0·00	0·04	0·07	0·00	0·17	0·05	0·00	0·09	0·46	0·00	0·00	0·00		22
23	0·00	0·18	0·03	0·19	0·03	0·00	0·19	0·00	0·07	0·00	0·15	0·00		23
24	0·70	0·02	0·06	0·00	0·00	0·00	0·00	0·00	0·10	0·02	0·00	0·03		24
25	0·04	0·00	0·00	0·00	0·00	0·06	0·00	0·00	0·00	0·05	0·00	0·00		25
26	0·49	0·17	0·15	0·00	0·03	0·07	0·00	0·00	0·00	0·00	0·05	0·00		26
27	0·56	0·79	0·00	0·17	0·05	0·00	0·28	0·00	0·00	0·00	0·20	0·00		27
1·19 28	0·10	0·31	0·00	0·00	0·13	0·00	0·00	0·17	0·00	0·00	0·00	0·07		28
29	0·00	0·00	0·38	0·02	0·00	0·31	0·02	0·00	0·00	0·00	0·00	0·95		29
30	0·00	✕	0·00	0·14	0·00	0·00	0·00	0·00	0·00	0·58	0·03	0·35		30
31	0·00	✕	0·14	✕	0·03	✕	0·00	0·07	✕	0·90	✕	0·00		31
													Year's Total	
TOTAL	2·15	2·66	3·53	3·06	1·00	0·99	4·55	2·69	5·67	5·38	8·98	6·48	47·14	
* Days with .01 in. or more.	10	15	20	18	10	7	19	13	15	16	24	18	185	
* Days with .04 in. or more.	8	12	17	15	8	7	16	13	13	13	21	17	160	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) Arthur S. Harvey

P.T.O.

2895

2895

HIGHER RED LUMB

1931—40

7P0502

FORM 1090. **B** M S

*** The following register of mon &c., is NOT required if daily values are given on the other … and also the space for

…egister should be sent:— Water Engineers' Office, …eywood, Lancs.

RAINFALL IN 193

At Higher Red Lumb

In the County of Lancas

Rain Gauge
- Diameter of Funnel 5
- *Height of Top above Ground* 1 ft
- *Height of Ground above Sea Level*

…in Summer

4 Direction from gauge

1/2 Direction from gauge

Directions from gauge ..

Month.	Total Depth.	Greatest Fall in 24 hours.			
	Inches.	Inches.	Date.		
JAN.	5.68				
FEB.	5.31				
MAR.	0.46				
APRIL	3.44				
MAY	3.19				
JUNE	6.55				
JULY	5.04				
AUG.	5.91				
SEPT.	3.43				
OCT.	2.69				
NOV.	10.78				
DEC.	2.56				
Total	55.64				

Signature J. Stanley Diggle

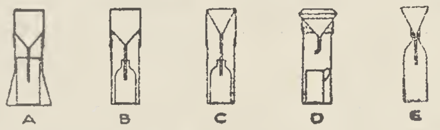
*See Instruction 2 (*f*) below.

If gauge has been moved during the year state—

Date of move — Distance — Direction —

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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Form 1090.

B M Summary.

C Particulars of Station.

2895

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1931

At Higher Red Lumb

In the County of Lancaster

Rain Gauge { Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 2 *in.*

Height of Ground above Sea Level — *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in or more	·04 in. or more
	Inches.	Inches.	Date.	*	*
JAN.	5·68				
FEB.	5·31				
MAR.	0·46				
APRIL	3·44				
MAY	3·19				
JUNE	6·55				
JULY	5·04				
AUG.	5·91				
SEPT.	3·43				
OCT.	2·69				
NOV.	10·48				
DEC.	2·56				
Total	55·64				

Signature J. Stanley Diggle per Jn.

*See Instruction 2 (*f*) below.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

J. Stanley Diggle C.E., Water Engineers' Office,
Hind Hill Street, Heywood, Lancs.

Hour of observation by the clock—in Winter 9 a.m. in Summer

Nearest Railway Station Wardleworth Distance 4 Direction from gauge

Nearest Parish Church at Norden Distance 1/2 Direction from gauge

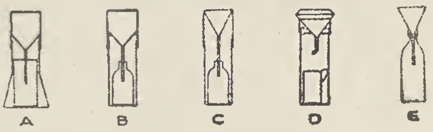
Nature of objects nearest to gauge	None			
Heights of objects				
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move — Distance — Direction —

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd. 9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.*

(*b*) *The rain-gauge should be visited every morning* without exception.* When there has been no precipitation the entry in the register should be a dash— (not ·00). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as ·01 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02, or 0·3.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1932

At Higher Red Lumb

In the County of Lancaster

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft* 3 *in.*
Height of Ground above Sea Level ________ *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	5.80				
FEB.	0.25				
MAR.	2.92				
APRIL	4.26				
MAY	5.66				
JUNE	0.92				
JULY	4.26				
AUG.	1.25				
SEPT.	5.12				
OCT.	8.90				
NOV.	3.55				
DEC.	2.46				
Total	45.37				

Signature J. Stanley Diggle Jn

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
J. Stanley Diggle C.E. Engineer
Water Board Offices Heywood

Hour of observation by the clock—in Winter 9 A.M. in Summer 9 A.M.

Nearest Railway Station Wardleworth Distance ________ Direction from gauge ________

Nearest Parish Church at Norden Distance ________ Direction from gauge ________

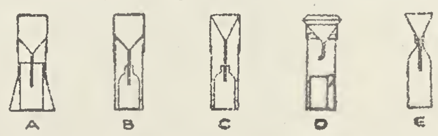
Nature of objects nearest to gauge				
Heights of objects		None		
Distances ..				
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move — Distance — Direction —

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(*a*) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace" The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(457) Wt.9673/738 16000 8/32. Gp. 119/110.

2895

FORM 1090.

B Monthly Summary.

, **The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.**

RAINFALL IN 1933.

At Higher Red Lumb

In the County of Lancaster

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* ...... *ft* ...... *in.*
- *Height of Ground above Sea Level* ...... *ft.*

Month.	Total Depth.	Greatest Fall in 24 hours.		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date.	*	*
JAN.	2.90				
FEB.	4.52				
MAR.	3.22				
APRIL	2.10				
MAY	1.92				
JUNE	1.86				
JULY	3.29				
AUG.	2.38				
SEPT.	1.92				
OCT.	4.87				
NOV.	2.19				
DEC.	0.61.				
Total	31.78				

P. Pro. HEYWOOD & MIDDLETON WATER BOARD

Signature James [illegible]

MANAGER.

*See Instruction 2 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—

Heywood & Middleton Water Board,
Waterworks Offices, Heywood.

Hour of observation by the clock—in Winter ...... in Summer ......

Nearest Railway Station Wardleworth Distance 4½ miles Direction from gauge ......

Nearest Parish Church at Norden Distance 1½ Direction from gauge ......

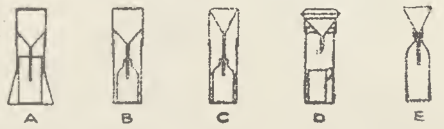
Nature of objects nearest to gauge				
Heights of objects				
Distances ..		NONE.		
Directions from gauge ..				

If gauge has been moved during the year state—

Date of move --- Distance ---- Direction -

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall**, please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh.

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(*b*) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0·0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than ·05 mm. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(*c*) *On some measures there is graduation marked ·005; this graduation is to show the limit between the amounts which count as 0·1 and those which are mere "traces."* An entry ·005 is not to be made in the register.

(*d*) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{matrix}17\\18\end{matrix}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(*e*) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(*f*) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace". The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(*g*) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(*h*) The heaviest daily fall for each month should be underlined.

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(506) Wt.24107/1845 15000 3/33. Gp. 119/110.

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

2895

Kept at Higher Red Lumb

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ...... ft 15 in.

,, Ground ,, Sea Level ...... ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1													1
2													2
3													3
4													4
5													5
6													6
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26													26
27													27
28													28
29													29
30		×											30
31		×		×		×			×		×		31
TOTAL	3·41	0·56	2·35	2·61	3·39	2·84	2·34	3·16	4·05	6·33	2·37	7·16	YEAR'S TOTAL 40·57
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													✓

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) James [illegible]

[P.T.O.

MANAGER.

2895

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1935.

At Higher Red Lumb.

In the County of Lancaster

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* *ft.* 15 *in.*
- *Height of Ground above Sea Level* *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with ·01 in. or more	Number of Days with ·04 in. or more
	Inches	Inches	Date	*	*
JAN.	2.27				
FEB.	6.08				
MAR.	1.80				
APRIL	3.80				
MAY	0.92				
JUNE	2.22				
JULY	2.11				
AUG.	1.94				
SEPT.	8.71				
OCT.	9.94				
NOV.	5.02				
DEC.	4.31				
TOTAL	49.12	?			

P. Pro. HEYWOOD & MIDDLETON WATER BOARD.

Signature

MANAGER.

*See Instruction 2 *(f)* below.

C Particulars of Station,

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Heywood and Middleton Water Board,
Hind Hill Street, Heywood.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Wardleworth Distance 4½ Direction from gauge

Nearest Parish Church at Norden Distance 1½ Direction from gauge

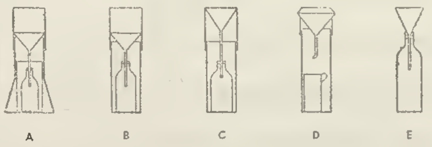
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state –

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) It is known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

M.O. 7
11 JAN 1936

D INSTRUCTIONS.

1. Rules for measuring the rainfull and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteorological Office, 6, Drumsheugh Gardens, Edinburgh 3.

2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

- (a) *Rain should be measured each morning, preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
  9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.
- (b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash— (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
  - (A) When there is less than ·005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceeding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
  - (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.
- (c) *On some measures there is graduation marked* ·005; *this graduation is to show the limit between the amounts which count as* ·01 *and those which are mere "traces."* An entry ·005 is not to be made in the register.
- (d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17/18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.
- (e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.
- (f) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.
- (g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.
- (h) The heaviest daily fall for each month should be underlined.

3. The columns are so spaced that the entries can be made by a typewriter.

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Wt.3430/1699 15,000 2/35 W. H. & S. 668/91.

2895

FORM 1090.

B Monthly Summary.

, The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1936.

At Higher Red Lumb,

In the County of Lancaster.

Rain Gauge
Diameter of Funnel 5 in.
Height of Top above Ground 1 *ft.* 3 *in.*
Height of Ground above Sea Level .... *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5.37				
FEB.	2.90				
MAR.	2.96				
APRIL	1.32				
MAY	1.26				
JUNE	4.08				
JULY	4.64				
AUG.	3.53				
SEPT.	5.88				
OCT.	6.35				
NOV.	6.90				
DEC.	4.94				
TOTAL	50.13				

Signature James Entwistle Jr.

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Heywood and Middleton Water Board,
Water Works Offices, Heywood.

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Wardleworth Distance 4½ miles Direction from gauge

Nearest Parish Church at Norden Distance 1½ miles Direction from gauge

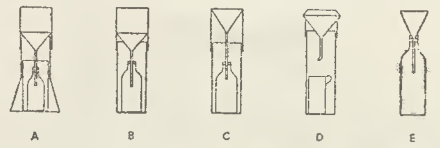
Nature of objects nearest to gauge				
Height of objects		None.		
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 *a.m. Greenwich Mean Time is* 10 *a.m. by the clock during Summer Time Period.*

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked* ·005; *this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this* ·005 *mark or between this* ·005 *and the* ·01 *mark are to be entered as* ·01 *even though they may be nearer to the* ·005 *mark than the* ·01 *mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with* ·01 *in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with* ·04 *in. or more" includes all the days with any rain except those for which the entries are trace,* ·01, ·02 *or* ·03.

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 40-9999

2895

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1937.

At Higher Red Lumb,

In the County of Lancaster,

Rain Gauge

Diameter of Funnel 5 in.

Height of Top above Ground 1 *ft.* 3 *in.*

Height of Ground above Sea Level .... *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	4.62				
FEB.	6.41				
MAR.	2.31				
APRIL	3.78				
MAY	2.22				
JUNE	2.21				
JULY	2.86				
AUG.	2.64				
SEPT.	2.10				
OCT.	2.24				
NOV.	2.09				
DEC.	4.36				
TOTAL	37.84 ✓				

Signature James Entwistle

* See Instruction 3 (*f*) below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Heywood and Middleton Water Board,
Hind Hill Street, Heywood, Lancs.,

Hour of observation by the clock—in Winter 9 a.m. in Summer 9 a.m.

Nearest Railway Station Wardleworth Distance 4½ Direction from gauge ....

Nearest Parish Church at Norden Distance 1½ Direction from gauge ....

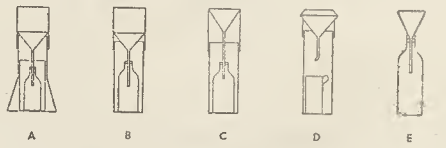
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B.**)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address :—

....

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

M.O. 7
8 JAN. 1938

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*

9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0). The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).

(A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

(B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 / 18 } ·14 would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2895

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

Kept at HIGHER RED LUMB

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 3 in.

,, Ground ,, Sea Level ....ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
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26														26
27														27
28														28
29														29
30		☒												30
31		☒		☒		☒			☒		☒			31
TOTAL	6·14	2·29.	1.54	0·77	3·68	5·10	5·15	4·93	2.10	11·22	5·62	5·73	Year's Total 54·27	
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) James Entwistle

[P.T.O.

3895

FORM 1090.

B Monthly Summary.

** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 1939

At Higher Red Lumb Norden

In the County of Lancaster

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* ft. 15 *in.*
- *Height of Ground above Sea Level* ft.

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				·01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	5·78				
FEB.	5·53				
MAR.	2·89				
APRIL	2·26				
MAY	1·85				
JUNE	4·09				
JULY	7·33				
AUG.	3·72				
SEPT.	1·49				
OCT.	2·47				
NOV.	8·63				
DEC.	4·19				
TOTAL	50·23				

Signature J Entwistle

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible:—

Name and Address to which any inquiry relating to this register should be sent:—
Heywood & Middleton Water Board
Hind Hill St. Heywood

Hour of observation by the clock—in Winter 9 A.M. in Summer 9 A.M.

Nearest Railway Station Wardleworth Distance 4 Direction from gauge

Nearest Parish Church at Norden Distance Direction from gauge

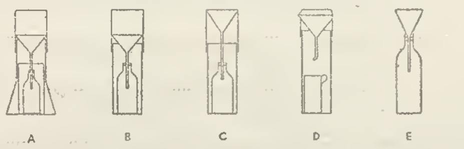
Nature of objects nearest to gauge	None			
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move Distance Direction

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked **A** and **B**.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in **British Rainfall,** please give the observer's name and address:—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

M.O. 7
18 JAN. 1940

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type*:—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
   (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
   (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005; this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

(d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\begin{matrix}17\\18\end{matrix}\Big|\Big\}\cdot14\Big|$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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S.O. Code No. 49-9999

2895

FORM 1090.

B Monthly Summary.

*** The following register of monthly totals, &c., is NOT required if daily or weekly values are given on the other side.

RAINFALL IN 19~~3~~40

At Higher Red Lumb

In the County of Lancaster

Rain Gauge
- Diameter of Funnel 5 in.
- *Height of Top above Ground* 1 *ft.* 3 *in.*
- *Height of Ground above Sea Level* .... *ft.*

Month	Total Depth	Greatest Fall in 24 hours		Number of Days with	
				01 in. or more	·04 in. or more
	Inches	Inches	Date	*	*
JAN.	2"24				
FEB.	2"87				
MAR.	3"65				
APRIL	2"93				
MAY	1"02				
JUNE	0"99				
JULY	4"80				
AUG.	2"35				
SEPT.	5"44				
OCT.	5"38				
NOV.	8"40				
DEC.	5"82				
TOTAL	45"89				

Signature ....

* See Instruction 3 *(f)* below.

C Particulars of Station.

Every observer is requested to fill in this section and also the space for notes as far as possible :—

Name and Address to which any inquiry relating to this register should be sent :—

Hour of observation by the clock—in Winter 9 A. M. in Summer ....

Nearest Railway Station Wardleworth Distance 4½ Miles Direction from gauge E.

Nearest Parish Church at Norden Distance 1½ Miles Direction from gauge E

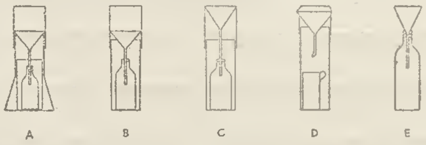
Nature of objects nearest to gauge				
Height of objects				
Distances ...				
Directions from gauge ...				

If gauge has been moved during the year state—

Date of move .... Distance .... Direction ....

Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars.



If you know of any record of rainfall not quoted in British Rainfall, please give the observer's name and address :—

NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR.

In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied :—

(a) Is it known that the gauge was empty at the beginning of the measured rainfall?
(b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

M. O.
28 FEB 1941
B. R.

D INSTRUCTIONS.

1. Section A should be completed in the case of gauges read daily. Information on Section B is required only if Section A cannot be filled in. Section C should also be completed. Rainfall registers should be forwarded to The Director, Meteorological Office, Air Ministry, London, W.C.2, or The Superintendent, Meteorological Office, 6 Drumsheugh Gardens, Edinburgh 3.

2. Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from the addresses given in 1 above.

3. In filling up the register on the reverse side the following rules should be observed. Those rules which apply *also* to the summary form above are printed in *italic type* :—

(a) *Rain should be measured each morning preferably at 9 a.m., Greenwich Mean Time. The measurement is to be credited to the previous day and should be entered in the register at the time of observation. Thus the entry for January 1st is the rainfall for the 24 hours following 9 a.m. on January 1st; it is therefore the amount measured on January 2nd.*
9 a.m. Greenwich Mean Time is 10 a.m. by the clock during Summer Time Period.

(b) *The rain-gauge should be visited every morning without exception.* When there has been no precipitation the entry in the register should be a dash — (not 0.0) The entry "trace" or "tr" is to be made in the two following cases, (A) and (B).
   (A) When there is less than .005 in. of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.
   (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the preceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather without the gauge being even damp, the small amount of rain having evaporated before it got into the receiving can.

(c) *On some measures there is graduation marked ·005 : this graduation is put on for the purpose of assisting observers in reporting "trace" of rain. Readings below this mark are entered as "trace" if the conditions stated in paragraph (b) are satisfied. Readings on this ·005 mark or between this ·005 and the ·01 mark are to be entered as ·01 even though they may be nearer to the ·005 mark than the ·01 mark. In this particular case the general rule of reading to the nearest mark is superseded by this special instruction.* An entry ·005 is not to be made in the register.

d) If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus $\left.\begin{array}{l}17\\18\end{array}\right\}\cdot 14$ would show that the reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was ·14 in.

(e) *The total rainfall for the month is found by addition. The addition should always be done a second time as a check.* The check is of special importance when the total has already been found in another copy of the register.

(f) *The "number of days with ·01 in. or more" includes all the days with any rain except those for which the entry is "trace." The "number of days with ·04 in. or more" includes all the days with any rain except those for which the entries are trace, ·01, ·02 or ·03.*

(g) If observations are not available for every day during the month the spaces for the number of days with rain should be left blank.

(h) The heaviest daily fall for each month should be underlined.

4. The columns are so spaced that the entries can be made by a typewriter.

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2896

Section **A** for the entry of

AIR MINISTR

FORM 1090.

REGIST

OPY FOR OFFICIAL USE.

ORGANIZATION.

2896

FAR KNOWL FARM

1931 — 40

780502

Kept at Far Knowl .

in the County of Lanca

Diameter of Funnel of Gauge

Height of top of Gauge above Groun

,, Ground ,, Sea L

THE MORNING MEASU

An observer who does not conform to

year in the space on the right of thi

owing

Jan. 1, following

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.							in.	in.	in.	
1					–								1
2	·16									·18			2
3				·69			·42						3
4									2·16			1·10	4
5						2·34							5
6		·45	·04								2·78		6
7								·70					7
8					·36								8
9	·10									1·31			9
10				·72			·98						10
11									·91			·91	11
12						1·21							12
13		2·01	·58								2·91		13
14								1·64					14
15					·50								15
16	2·35									·32			16
17				1·16			2·10						17
18									·20			·04	18
19						2·34							19
20		1·42	·13								1·47		20
21								3·08					21
22					·51								22
23	2·28									·05			23
24				·58			1·16						24
25									–			·43	25
26						·59							26
27		1·98	·07								3·71		27
28		·24						–					28
29		✕			1·66								29
30		✕		1·03		–			·17	1·10	–		30
31	·54	✕	–	✕	–	✕	1·40	–	✕	·06	✕	·40	31
TOTAL	5·46	6·10	·82	4·17	3·03	6·51	6·06	5·42	3·44	3·02	10·87	3·18	YEAR'S TOTAL 58·08
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) J. Stanley Diggle

[P.T.O.

2896

Section **A** for the entry of … OPY FOR OFFICIAL USE.
AIR MINISTR … ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Far Knowl.
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level ……… ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1					–								1
2	·16									·18			2
3				·69			·42						3
4									2·16			1·10	4
5						2·34							5
6		·45	·04								2·78		6
7								·70					7
8					·36								8
9	·10									1·31			9
10				·72			·98						10
11									·91			·91	11
12						1·21							12
13		2·01	·58								2·91		13
14								1·64					14
15					·50								15
16	2·35									·32			16
17				1·16			2·10						17
18									·20			·04	18
19						2·37							19
20		1·42	·13								1·47		20
21								3·08					21
22					·51								22
23	2·28									·05			23
24				·58			1·16						24
25									–			·43	25
26						·59							26
27		1·98	·07								3·71		27
28		·24						–					28
29		×			1·66								29
30		×		1·02		–			·17	1·10	–		30
31	·54	×	–	×	–	×	1·40	–	×	·06	×	·40	31
TOTAL	5·46	6·10	·82	4·17	3·03	6·51	6·06	5·42	3·44	3·02	10·87	3·18	YEAR'S TOTAL 58·08
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) J. Stanley Diggle
per Jn.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2896

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Far Knowl Farm Norden

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft ...... in.

,, Ground ,, Sea Level ...... ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0·63			0·56			0·15						1
2									2·80			0·50	2
3						0·00							3
4			0·00								0·60		4
5		0·00						0·08					5
6					0·36								6
7										1·08			7
8	4·07			1·40			0·68						8
9									1·67			0·19	9
10						0·00							10
11			1·06								0·00		11
12		0·14											12
13					1·61			0·13					13
14										2·48			14
15	1·29			0·88			0·61						15
16									1·48			0·73	16
17						0·07							17
18			0·00								0·32		18
19		0·04						0·23					19
20					1·23								20
21										2·79			21
22	0·33			0·68			0·65						22
23									0·08			0·24	23
24						0·08							24
25			0·68								1·81		25
26		0·02						0·69					26
27					1·82								27
28										1·86			28
29	0·16	0·00		1·20			2·40						29
30		×		0·06		0·71			0·74		1·18	0·85	30
31	0·00	×	1·48	×	0·24	×	0·27	0·50	×	0·93	×	0·08	31
TOTAL	6·48	0·20	3·22	4·78	5·26	0·86	4·76	1·63	6·77	9·14	3·91	2·59	YEAR'S TOTAL 49·60
*Days with ·01 in. or more.													
*Days with .04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side,

(Signed) J. Stanley Diggle Jn

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2896

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Far Know Farm Gra

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground .... ft .... in.

,, Ground ,, Sea Level .... ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1									0·10			0·00		1
2						0·13								2
3		1·54	0·73								0·61			3
4								0·17						4
5					0·55									5
6	1·02									0·00				6
7				0·39			0·16							7
8									0·00			0·12		8
9						0·00								9
10		1·84	0·66								0·68			10
11								0·23						11
12					0·42									12
13	0·80									3·41				13
14				0·41			2·33							14
15									0·00			0·02		15
16						0·75								16
17		0·06	1·13								0·96			17
18								0·59						18
19					0·37									19
20	0·57									0·65				20
21				0·03			0·17							21
22									1·21			0·06		22
23						1·28								23
24		0·18	0·52								0·20			24
25								1·22						25
26					0·20									26
27	0·00									0·48				27
28				1·41			0·09							28
29		0·49							0·68			0·20		29
30		×		0·06		0·06			0·00		0·00			30
31	0·39	×	0·08	×	0·08	×	1·11	0·34	×	0·95	×	0·32		31
TOTAL	2·78	4·11	3·12	2·30	1·62	2·22	3·86	2·55	1·99	5·49	2·45	0·72	Year's Total 33·21	
*Days with ·01 in. or more.														
*Days with ·04 in. or more.														

P. Pro. HEYWOOD & MIDDLETON WATER BOARD.

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) James Entwistle

MANAGER.

P.T.O.

Section **A** for the entry of Daily Observations. **COPY FOR OFFICIAL USE.**

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

2896

Kept at Far Knowl.

in the County of Lancaster.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ....ft ....in.

,, Ground ,, Sea Level ....ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1						0·00				1·86			1
2		0·03	0·17								0·49		2
3								0·79					3
4					0·11								4
5	0·61												5
6				0·12			0·00						6
7									0·21			3·72	7
8						0·75							8
9		0·22	0·62								1·45		9
10								1·30					10
11					0·75								11
12	0·47									1·59			12
13				0·83			0·09						13
14									0·02			0·42	14
15						0·02							15
16		0·00	0·91								0·09		16
17								0·58					17
18					2·48								18
19	2·66									1·50			19
20				0·40			0·38						20
21									1·44			1·20	21
22						1·66							22
23		0·00	0·84								0·06		23
24								0·52					24
25					0·83								25
26	0·46									1·47			26
27				1·00			2·09						27
28		0·41							1·94			1·74	28
29						0·83							29
30		×	0·11	0·02		0·00			0·93		0·19		30
31	0·12	×	0·00	×	0·00	×	0·84	1·30	×	0·95	×	0·38	31
TOTAL	4·32	0·66	2·65	2·37	4·17	3·26	3·40	4·49	4·54	7·37	2·28	7·46	YEAR'S TOTAL 46·97
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) James Entwistle [P.T.O.

MANAGER.

COPY FOR OFFICIAL USE/

Far Knowl Gauge.
Station No. 2896

Section **A** for the entry of Daily Observations.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Far Knowl Farm, Norden.
in the County of Lancaster.
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground ....ft.........in.
,, Ground ,, Sea Level ....ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1		0.62	0.09								0.22			1
2								-						2
3					-									3
4	0.99									1.65				4
5				0.42			0.93							5
6									1.02			1.67		6
7						1.17								7
8		2.08	0.48								0.60			8
9								-						9
10					-									10
11	0.40									3.45				11
12				1.38			-							12
13									0.19			0.95		13
14						0.92								14
15		3.40	-								1.91			15
16								-						16
17					1.20									17
18	0.39									1.16				18
19				1.59			0.97							19
20									2.90			0.80		20
21						1.51								21
22		1.65	0.32								1.06			22
23								0.33						23
24					0.11									24
25	1.01									0.88				25
26				0.98			0.10							26
27									4.11			0.80		27
28		0.46				0.21								28
29			1.38								1.16			29
30		✕		-		0.22		1.76	0.67		0.53			30
31	0.42	✕	-	✕	0.03	✕	0.57	-	✕	4.64	✕	0.75		31
TOTAL	3.21	8.21	2.27	4.37	1.34	4.03	2.57	2.09	8.89	11.78	5.48	4.97	Year's Total 59.21	
* Days with .01 in. or more.													–	
* Days with .04 in. or more.													–	

P. Pro. HEYWOOD & MIDDLETON WATER BOARD.

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(Signed) James Bestwick

MANAGER.

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2896

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1936

Kept at Far Knowl Farm Norden

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft. 15" in.

,, Ground ,, Sea Level ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1					0.00									1
2										0.00				2
3	0.05			0.24			0.04							3
4									1.96			1.32		4
5						0.47								5
6			1.34								0.87			6
7		0.50						1.99						7
8					0.00									8
9										0.00				9
10	0.44			0.00			1.63							10
11									2.87			1.78		11
12						0.74								12
13			0.57								3.44			13
14		0.00						0.26						14
15					0.12									15
16										0.78				16
17	0.43			0.34			1.83							17
18									0.89			1.65		18
19						0.73								19
20			0.10								1.82			20
21		0.95						1.41						21
22					0.00									22
23										2.71				23
24	1.36			0.50			1.61							24
25									0.45			0.23		25
26						1.23								26
27			0.31								0.00			27
28		1.38						0.00						28
29		0.45			0.53									29
30		✗		0.09		0.69			0.49	3.75	0.43			30
31	2.30	✗	1.15	✗	0.39	✗	0.66	0.10	✗	0.00	✗	1.22	W	31
TOTAL	4.58	3.28	3.47	1.17	1.04	3.86	5.77	3.76	6.66	7.24	6.56	6.20	Year's Total 53.59 ✓	
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required

* See Instruction 3 (f) on other side.

(Signed) James Entwistle Jr.

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No 2896

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937

Kept at Far Knowl Farm

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft. 15'' in.

,, Ground ,, Sea Level ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0.10									0.00				1
2				0.32			0.10							2
3									0.40			0.25		3
4						0.95								4
5		0.87	0.88								0.00			5
6								0.47						6
7					0.34									7
8	2.63									0.00				8
9				0.90			0.95							9
10									0.17			1.70		10
11						0.43								11
12		1.47	0.22								0.03			12
13								0.76						13
14					0.30									14
15	0.34						0.53			0.03				15
16				1.44										16
17									1.31			0.89		17
18						0.62								18
19		2.56	0.92								0.71			19
20								1.16						20
21					0.42									21
22	0.77									0.61				22
23				1.26			1.31							23
24									0.20			1.12		24
25						0.14								25
26		1.41	0.41								0.29			26
27								0.14						27
28		0.12			1.13									28
29	0.26									0.98				29
30		✕		0.15		0.56	0.06		0.11		0.92			30
31	0.23	✕	0.00	✕	0.00	✕	0.00	0.34	✕	0.42	✕	0.18		31
TOTAL	4.43	6.43	2.43	4.07	2.19	2.70	2.95	2.87	2.19	2.04	1.95	4.14	Year's Total 38.39	X
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations — Station No. 2896

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

Kept at FAR KNOWL FARM

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 3 in.

,, Ground ,, Sea Level .... ft.

W

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1				0·00			0·03							1
2									0·00			0·53		2
3						1·20								3
4		0·10	0·00								1·03			4
5								1·15						5
6					0·00									6
7	0·74									5·40				7
8				0·88			2·01							8
9									0·32			2·21		9
10						0·55								10
11		0·93	0·37								0·13			11
12								0·51						12
13					0·35									13
14	1·60									3·98				14
15				0·00			1·81							15
16									0·09			0·88		16
17						0·08								17
18		0·05	0·15								1·47			18
19								2·08						19
20					0·86									20
21	1·57									1·32				21
22				0·00			0·40							22
23									0·56			0·09		23
24						1·44								24
25		0·58	0·44								2·72			25
26								0·84						26
27					0·91									27
28	1·84	0·95								0·87				28
29				0·00			1·05							29
30		✕		0·00		2·32			0·63		1·02	1·16		30
31	0·87	✕	0·94	✕	1·84	✕	0·04	0·31	✕	0·97	✕	0·96		31
TOTAL	6·62	2·61	1·90	0·88	3·96	5·59	5·34	4·89	1·60	12·54	6·34	5·83	Year's Total 58·13	✓
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

*See Instruction 3 (f) on other side.

(*Signed*) James [illegible]

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2896

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939.

Kept at Far Knowl Farm, Rorden

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft. 15 in.

,, Ground ,, Sea Level ft.

W

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1									0·13			0·63		1
2						—								2
3		~~0~~	0·31								0·16			3
4								1·16						4
5					0·39									5
6	1·54									0·38				6
7				0·56			2·54							7
8									0·77			2·95		8
9						—								9
10		1·77	1·25								1·16			10
11								0·93						11
12					0·19					0·76				12
13	1·78													13
14				0·45			0·99							14
15									0·59			0·94		15
16														16
17		0·80	0·61			2·96					0·72			17
18								—						18
19					1·14									19
20	2·15									0·06				20
21				1·08			0·94							21
22									0·03			—		22
23						0·44								23
24		1·96	0·91								2·00			24
25								0·41						25
26					0·04									26
27	0·39									0·99				27
28		2·39		0·38			1·23							28
29									—			0·13		29
30		✕		—		1·09			-		5·20			30
31	—	✕	0·36	✕	—	✕	1·96	0·97	✕	0·10	✕	—		31
TOTAL	5·86	6·22	3·44	2·47	1·76	4·49	7·66	3·47	1·52	2·29	9·24	4·65	Year's Total 53·07	
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

(*Signed*) J. Entwistle

* See Instruction 3 (f) on other side.

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2896

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 193

Kept at Far Knowl ~~Farm~~ Gauge, Naden

in the County of Lancaster

Diameter of Funnel of Gauge 8" in.

Height of top of Gauge above Ground 1 ft. 3 in.

,, Ground ,, Sea Level — ft.

Weekly Gauge.

Jan 27th 31st est. from nearby stns

Snow circ. sent 30.4.41.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1			0·00											1
2		0·00									0·90			2
3					0·00			0·00						3
4														4
5	0·00			0·68						0·29				5
6														6
7						0·00	0·60		0·02			1·79		7
8			0·00											8
9		0·69									1·06			9
10					0·29			0·59						10
11														11
12	0·31			0·52						2·97				12
13														13
14						0·04	2·32		2·04			1·47		14
15			1·12											15
16		0·12									4·58			16
17					Broken up.			1·10						17
18														18
19	0·06			1·10						0·31				19
20														20
21						0·51	2·01		3·33			1·25		21
22			1·95											22
23		0·74									1·87			23
24					0·18			1·13						24
25														25
26	0·97			0·49						0·30				26
27														27
28						0·22	0·39		0·63			0·03		28
29	(1·63)	1·34	0·68											29
30		✕		0·31		0·35					0·30			30
31	~~0·73~~	✕ 0·00	0·14	✕	0·22	✕	0·29	0·30	✕ 0·00	1·50	✕ 0·04	1·52		31
TOTAL	2·97 ~~2·07~~	2·89	3·89	3·10	0·69	1·12	5·61	3·12	6·10	5·37	8·75	6·06	Year's Total ~~48·75~~	49·67 ~~49·65~~
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) Arthur S. Harvey

[P.T.O.

2897

Section **A** for the entry o

AIR MINISTR

FORM 1090, REGIS

OPY FOR OFFICIAL USE.

ORGANIZATION.

2897

NADEN DEAN FARM (OLD GAUGE)

1931 — 40

780502

Kept at Naden Dean

in the County of Lancas

Diameter of Funnel of Gauge

Height of top of Gauge above Groun

,, Ground ,, Sea L

THE MORNING MEASU

An observer who does not conform to

year in the space on the right of th

llowing

Jan. 1, following

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.								in.	in.	
1													1
2	·13									·14			2
3				·83			·39						3
4									1·96			·78	4
5						2·19							5
6		·63	·03								2·40		6
7								·91					7
8					·32								8
9	·08									1·01			9
10				·56			·63						10
11									·87			·58	11
12						1·44							12
13		1·45	·17								2·62		13
14								1·82					14
15					·39								15
16	·89									·30			16
17				·59			1·53						17
18									·34			·03	18
19						2·20							19
20		·97	·12								1·61		20
21								2·60					21
22					·75								22
23	1·70									·04			23
24				·47			1·08						24
25									—			·48	25
26						·38							26
27		1·16	·04								3·54		27
28		·23						—					28
29		✕			1·50								29
30	1·31	✕		·84		—			·13	·93	—		30
31	·53	✕	—	✕	—	✕	·88	—	✕	·05	✕	·16	31
TOTAL	4·64	4·44	·36	3·29	2·96	6·21	4·51	5·33	3·30	2·47	10·17	2·03	YEAR'S TOTAL 49·71
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) J Stanley Diggle per Jn. JR.T/O.

2897

Section **A** for the entry o[redacted]PY FOR OFFICIAL USE.
AIR MINISTR[redacted] ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Naden Dean (Old Gauge)
in the County of Lancaster
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 3½ in.
,, Ground ,, Sea Level 948·19 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1													1
2	·13									·14			2
3				·83			·39						3
4									1·96			·78	4
5						2·19							5
6		·63	·03								2·40		6
7								·91					7
8					·32								8
9	·08									1·01			9
10				·56			·63						10
11									·87			·58	11
12						1·44							12
13		1·45	·17								2·62		13
14								1·82					14
15					·39								15
16	·89									·30			16
17				·59			1·53						17
18									·34			·03	18
19						2·20							19
20		·97	·12								1·61		20
21								2·60					21
22					·75								22
23	1·70									·04			23
24				·44			1·08						24
25									–			·48	25
26						·38							26
27		1·16	·04								3·54		27
28		·23						–					28
29		X			1·50								29
30	1·31	X		·84		–			·13	·93	–		30
31	·53	X	–	X	–	X	·88	–	X	·05	X	·16	31
TOTAL	4·64	4·44	·36	3·29	2·96	6·21	4·51	5·33	3·30	2·47	10·17	2·03	YEAR'S TOTAL 49·71
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) J Stanley Diggle per J.S. Jr. T/O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2897

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Naden Dean Farm, Norden,

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 3½ in.

,, Ground ,, Sea Level 948.19 ft.

~~Old gauge~~

Naden Dean Farm (Norden)
Old Gauge.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0.58			0.47			0.11						1
2									2.03			0.39	2
3						0.00							3
4			0.00								0.46		4
5		0.00						0.04					5
6					0.42								6
7										0.95			7
8	3.13			0.64			0.53						8
9									1.67			0.13	9
10						0.00							10
11			0.59								0.00		11
12		0.11						0.06					12
13					1.44								13
14										2.10			14
15	1.27			0.55			0.93						15
16									1.03			0.66	16
17						0.03							17
18			0.00								0.25		18
19		0.03						0.22					19
20					1.24								20
21										2.24			21
22	0.27			0.58			0.55						22
23									0.05			0.21	23
24						0.05							24
25			0.62								1.38		25
26		0.05						0.65					26
27					1.70								27
28										1.54			28
29	0.09	0.00		1.18			2.19						29
30		X		0.04		0.76			0.56		0.86	0.85	30
31	0.00	X	1.40	X	0.26	X	0.18	0.36	X	0.85	X	0.07	31
TOTAL	5.34	0.19	2.61	3.46	5.06	0.84	4.49	1.33	5.34	7.68	2.95	2.31	YEAR'S TOTAL 41.60
*Days with ·01 in. or more.													
*Days with .04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) J. Stanley Diggle Jr.

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2897

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Naden Dean Farm (Old Gauge)

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft 15½ in.

,, Ground ,, Sea Level 948 ·19 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1									0·04			0·00		1
2						0·12								2
3		1·24	0·80								0·23			3
4								0·15						4
5					0·83									5
6	0·79									0·00				6
7				0·25			0·16							7
8									0·00			0·11		8
9						0·00								9
10		1·27	0·55								0·46			10
11								0·08						11
12					0·30									12
13	0·60									3.11				13
14				0·28			1·88							14
15									0·00			0·04		15
16						0·50								16
17		0·05	1·25								1·19			17
18								0·30						18
19					0·36									19
20	0·48									0·41				20
21				0·03			0·16							21
22									1·20			0·06		22
23						0·88								23
24		0·11	0·50								0·20			24
25								0·90						25
26					0·15									26
27	0·00									0·42				27
28		0·73		1·38			0·08							28
29									0·62			0·21		29
30		X		0·06		0·09			0·00		0·00			30
31	0·38	X	0·07	X	0·08	X	0·35	0·17	X	0·61	X	0·25	Year's Total	31
TOTAL	2·25	3 40	3·17	2·00	1·72	1·59	2·63	1·60	1·86	4·55	2 08	0·67	27·52	
*Days with ·01 in. or more.														
*Days with .04 in. or more.														

P. Pro. HEYWOOD & MIDDLETON WATER BOARD.

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) James Entwistle

MANAGER.

[P.T.O.

D

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

2897

Kept at Loden (Old Gauge)

in the County of Lancaster.

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft 15½ in.

,, Ground ,, Sea Level 248·19 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1						0·00							1
2		0·02	0·13								0·41		2
3								0·56					3
4	0·42				0·10								4
5										1·40			5
6				0·12			0·00						6
7									0·18			3·47	7
8						0·89							8
9		0·06	0·61								1·66		9
10								1·20					10
11					0·62								11
12	0·35									0·90			12
13				1·02			0·07						13
14									0·02			0·39	14
15						0·01							15
16		0·00	1·80								0·10		16
17								0·40					17
18					1·76								18
19	2·08									0·79			19
20				0·36			0·30						20
21									1·18			1·08	21
22						1·23							22
23		0·00	0·49								0·04		23
24								0·32					24
25					0·57								25
26	0·36									1·20			26
27				0·86			1·24						27
28		0·38							1·60			1·98	28
29						0·75							29
30		×	0·04	0·01		0·00			0·76		0·03		30
31	0·08	×	0·00	×	0·00	×	0·49	1·19	×	0·49	×	0·31	31
TOTAL	3·29	0·46	2·27	2·37	3·05	2·88	2·10	3·67	3·74	4·78	2·24	7·23	YEAR'S TOTAL 38·08
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) James Bewsher

MANAGER.

P.T.O.

COPY FOR OFFICIAL USE.

Old Gauge.

Section **A** for the entry of Daily Observations.

Station No. 2897

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Naden Dean Farm, Norden.

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ......ft. 15½ in.

" Ground " Sea Level 948.19 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1		0.25	0.07								0.15			1
2								-						2
3					-									3
4	0.44									1.62				4
5				0.21			0.60							5
6									0.89			0.83		6
7						1.16								7
8		1.10	0.37								0.48			8
9								-						9
10					-									10
11	0.27									3.11				11
12				0.20			-							12
13									0.14			0.86		13
14						0.82								14
15		2.04	-								1.84			15
16								-						16
17					0.85									17
18	0.13									0.63				18
19				1.38			0.89							19
20									2.24			0.49		20
21						1.29								21
22		1.05	0.25								1.11			22
23								0.35						23
24					0.08									24
25	0.30									0.68				25
26				0.84			0.06							26
27									4.16			0.68		27
28		0.47				0.15								28
29			0.81								0.83			29
30		✕		-		0.22		1.74	0.55		0.46			30
31	0.42	✕	-	✕	0.04	✕	0.23	-	✕	2.02	✕	0.85		31
TOTAL	1.56	4.91	1.50	3.33	0.97	3.64	1.78	2.09	7.98	8.06	4.87	3.71	Year's Total 44.40	? ✓
* Days with .01 in. or more.														
* Days with .04 in. or more.														

P. Pro. HEYWOOD & MIDDLETON WATER BOARD.

40-9999.

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(Signed) .... [P.T.O.

MANAGER.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2897

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1936

Kept at Naden Dean Farm, Norden

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft. 15½ in.

,, Ground ,, Sea Level 948.19 ft.

Old Gauge

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1					0.00									1
2										0.00				2
3	0.04			0.27			0.03							3
4									1.95			0.68		4
5						0.53								5
6			0.67								0.75			6
7		0.38						1.77						7
8					0.00									8
9										0.00				9
10	1.36			0.00			1.56							10
11									2.28			0.59		11
12						0.87								12
13			0.60								2.90			13
14		0.00						0.22						14
15					0.06									15
16										0.51				16
17	0.33			0.27			1.49							17
18									0.79			1.06		18
19						0.70								19
20			0.07								1.54			20
21		0.93						1.30						21
22					0.00									22
23										1.79				23
24	0.48			0.39			1.58							24
25									0.43			0.08		25
26						1.32								26
27			0.29								0.00			27
28		0.78						0.00						28
29		0.03			0.63									29
30		✕		0.02		0.70			0.41	2.34	0.15			30
31	2.22	✕	1.01	✕	0.45	✕	0.46	0.01	✕	0.00	✕	0.88	W	31
TOTAL	4.43	2.12	2.64	0.95	1.14	4.12	5.12	3.30	5.86	4.64	5.34	3.29	Year's Total 42.95	
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) James Entwistle Jr.

[P.T.O.

COPY FOR OFFICIAL USE

Section A **for the entry of Daily Observations**

Station No. 2897

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937

Kept at Naden Dean Farm

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ... ft. 15½ in.

,, Ground ,, Sea Level 948·19 ft.

(Old Gauge)

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0·06									0·00				1
2				0·28			0·06							2
3									0·38			0·29		3
4						0·68								4
5		0·73	0·23								0·00			5
6								0·41						6
7					0·29									7
8	1·64									0·00				8
9				0·89			0·84							9
10									0·12			0·87		10
11						0·50								11
12		1·17	0·23								0·01			12
13								0·65						13
14					0·40									14
15	0·56									0·02				15
16				1·13			0·42							16
17									1·23			0·52		17
18						0·67								18
19		2·05	0·76								0·75			19
20								0·94						20
21					0·50									21
22	0·57									0·59				22
23				0·89			1·05							23
24									0·13			0·76		24
25						0·15								25
26		1·13	0·22								0·38			26
27								0·16						27
28		0·05			1·03									28
29	0·25									0·03				29
30		✕		0·08		0·38	0·02		0·10		0·82			30
31	0·26	✕	0·00	✕	0·00	✕	0·00	0·41	✕	0·45	✕	0·15		31
TOTAL	3·34	5·13	1·44	3·27	2·22	2·38	2·39	2·57	1·96	1·09	1·96	2·59	Year's Total 30·34	✓
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) James Cartwright [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2897

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937

Kept at NADEN DEAN FARM

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 3½ in.

,, Ground ,, Sea Level 918·19 ft.

OLD GAUGE

W

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1				0·00			0·01							1
2									0·00			0·48		2
3						1·05								3
4		0·03	0·00								0·75			4
5								1·53						5
6					0·00									6
7	0·58									3·73				7
8				0·44			2·03							8
9									0·54			2·06		9
10						0·41								10
11		0·43	0·09								0·10			11
12								0·22						12
13					0·27									13
14	1·51									3·20				14
15				0·00			1·33							15
16									0·06			1·44		16
17						0·00								17
18		0·01	0·08								1·25			18
19								1·53						19
20					0·78									20
21	1·11									0·96				21
22				0·00			0·29							22
23									0·57			0·06		23
24						1·17								24
25		0·57	0·28								2·34			25
26								0·81						26
27					0·72									27
28	1·05	0·63								0·91				28
29				0·00			0·98							29
30		✕		0·00		1·91			0·63		1·24	0·79		30
31	0·53	✕	0·49	✕	1·78	✕	0·03	0·28	✕	0·77	✕	0·99		31
TOTAL	4·78	1·67	0·94	0·44	3·55	4·54	4·64	4·34	1·80	9·54	5·71	5·82	Year's Total 47·86	
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) .... [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2897

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939

Kept at Laden Dean Farm Lodge

in the County of Lancast

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ......ft. ......in.

,, Ground ,, Sea Level 948.19 ft.

Old Gauge

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1									0.11			0.39		1
2						—								2
3		—	0.28								0.16			3
4								1.11						4
5					0.37									5
6	1.27									0.44				6
7				0.65			2.17							7
8									0.88			2.56		8
9						—								9
10		1.48	0.82								0.97			10
11								0.84						11
12					0.15									12
13	1.18									0.95				13
14				0.30			0.98							14
15									0.68			0.79		15
16						2.66								16
17		0.55	0.40								0.52			17
18								—						18
19					1.04									19
20	2.49									0.04				20
21				0.57			0.88							21
22									0.03			—		22
23						0.32								23
24		1.18	0.61								1.85			24
25								0.44						25
26					0.04									26
27	0.40									0.66				27
28		2.03		0.25			1.01							28
29									—			0.13		29
30		✕		—		0.87			—		3.59	—		30
31	—	✕	0.28	✕	—	✕	1.71	1.05	✕	0.17	✕			31
TOTAL	5.34	5.21	2.39	1.77	1.60	3.85	6.75	3.44	1.70	2.26	7.09	3.87	Year's Total 45.30	
* Days with .01 in. or more.														
* Days with .04 in. or more.														

* See Instruction 3 (f) on other side.

† Spare column, no entries required.

(*Signed*) J Entwistle

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2897

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19~~3~~40.

Kept at Naden Dean Farm Old Gauge.

in the County of Lancaster

Diameter of Funnel of Gauge 5" in.

Height of top of Gauge above Ground 1 ft. 3½ in.

,, Ground ,, Sea Level 948·19 ft.

Weekly Gauge.

Jan 27th, 31st ests from nearby stns

Snow circ. sent 30.4.41

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1			0·00											1
2		0·00	~~—~~								0·78			2
3					0·00			0·00						3
4														4
5	0·00			0·73						0·27				5
6														6
7						0·00	0·36		0·00			1·60		7
8			0·00											8
9		0·63									0·91			9
10					0·22			0·38						10
11														11
12	0·24			0·36						2·36				12
13														13
14						0·02	2·08		1·19			0·98		14
15			0·86											15
16		0·11									3·76			16
17					0·33			0·54						17
18														18
19	0·06			0·43						0·34				19
20														20
21						0·40	1·33		2·59			1·12		21
22			1·56											22
23		0·59									1·84			23
24					0·18			0·58						24
25														25
26	0·79			0·52						0·27				26
27														27
28						0·12	0·25		0·53			0·02		28
29	(1·66)	1·31	0·60											29
30		✕		0·34		0·24					0·20			30
31	~~0·06~~	✕	0·11	✕	0·20	✕	0·30	0·17	✕ 0·00	1·43	✕ 0·03	0·85		31
													Year's Total	
TOTAL	(2·75) ~~1·15~~	2·64	3·13	2·38	0·93	0·78	4·32	1·67	4·31	4·67	7·52	4·57	~~38·07~~	9 38·67
* Days with ·01 in. or more.														
* Days with ·04 in. or more.														

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) Arthur S. Harvey

[P.T.O.

2898

Section **A** for the entry of D

AIR MINISTRY.

…Y FOR OFFICIAL USE.

…RGANIZATION.

FORM 1090.

REGIST

Kept at Naden Dean Farm

in the County of Lancaster

Diameter of Funnel of Gauge

Height of top of Gauge above Ground

,, Ground ,, Sea Lev

THE MORNING MEASUR

An observer who does not conform to th
year in the space on the right of this

P

…ing

Jan. 1, following

—

2898

NADENDEAN FARM (NEW GAUGE)

1931 — 40

780502

Date	Jan.	Feb.	March	A							Nov.	Dec.	*Date*
	in.	in.	in.								in.	in.	
1					—								1
2	·15									·17			2
3				·81			·40						3
4									2·13			·87	4
5						2·16							5
6		·49	·03								2·45		6
7								·97					7
8					·37								8
9	·10									1·11			9
10				·64			·71						10
11									·95			·66	11
12						1·51							12
13		1·79	·19								2·70		13
14								1·93					14
15					·46								15
16	1·20									·33			16
17				·78			1·73						17
18									·36			·04	18
19						2·31							19
20		1·14	·12								1·63		20
21								2·75					21
22					·80								22
23	1·86									·05			23
24				·57			1·14						24
25									—			·54	25
26						·46							26
27		1·39	·06								3·56		27
28		·23						—					28
29		✕			1·56								29
30	1·53	✕		·91		–			·15	1·01	–		30
31	·40	✕	—	✕	—	✕	1·07	—	✕	·06	✕	·21	31
TOTAL	5·24	5·04	·40	3·71	3·19	6·44	5·05	5·65	3·59	2·73	10·34	2·32	YEAR'S TOTAL 53·70
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) J Stanley Diggle

P.T.O.

2898

Section **A** for the entry of D Y FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Naden Dean Farm (New Gauge)

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 3½ in.

,, Ground ,, Sea Level 948.19 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1					—								1
2	·15									·14			2
3				·81			·40						3
4									2·13			·84	4
5						2·16							5
6		·49	·03								2·45		6
7								·94					7
8					·34								8
9	·10									1·11			9
10				·64			·41						10
11									·95			·66	11
12						1·51							12
13		1·79	·19								2·70		13
14								1·93					14
15					·46								15
16	1·20									·33			16
17				·78			1·73						17
18									·36			·04	18
19						2·31							19
20		1·14	·12								1·63		20
21								2·75					21
22					·80								22
23	1·86									·05			23
24				·54			1·14						24
25									—			·54	25
26						·46							26
27		1·39	·06								3·56		27
28		·23						—					28
29		X			1·56								29
30	1·53	X		·91		–			·15	1·01	–		30
31	·40	X	—	X	—	X	1·07	—	X	·06	X	·21	31
TOTAL	5·24	5·04	·40	3·71	3·19	6·44	5·05	5·65	3·59	2·73	10·34	2·32	YEAR'S TOTAL 53·70
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) J Stanley Diggle

P.T.O.

Section **A** **for the entry of Daily Observations.**

COPY FOR OFFICIAL USE.

Station No 2898

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Naden Dean Farm Norden

in the County of Lancaster

New Gauge

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 3½ in.

,, Ground ,, Sea Level 948·19½ ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	0·62			0·53			0·13						1
2									2·14			0·45	2
3						0·00							3
4			0·00								0·50		4
5		0·00						0·07					5
6					0·50								6
7										1·06			7
8	3·33			0·78			0·56						8
9									1·57			0·16	9
10						0·00							10
11			0·74								0·00		11
12		0·12						0·07					12
13					1·53								13
14										2·21			14
15	1·27			0·64			1·00						15
16									1·15			0·67	16
17						0·07							17
18			0·00								0·29		18
19		0·04						0·26					19
20					1·24								20
21										2·36			21
22	0·29			0·67			0·61						22
23									0·07			0·22	23
24						0·07							24
25			0·64								1·53		25
26		0·07						0·68					26
27					1·80								27
28										1·53			28
29	0·12	0·00		1·21			2·33						29
30		✕		0·06		0·77			0·60		0·96	0·85	30
31	0·00	✕	1·41	✕	0·28	✕	0·21	0·38	✕	0·98	✕	0·08	31
TOTAL	5·63	0·23	2·79	3·88	5·35	0·91	4·84	1·46	5·53	8·14	3·28	2·43	YEAR'S TOTAL 44·47
*Days with ·01 in. or more.													
*Days with .04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) J. Stanley Diggle Jr

P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2898

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Naden Dean Farm (new Gauge)

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft. 15½ in.

,, Ground ,, Sea Level 948·19 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1									0·06			0·00		1
2						0·12								2
3		1·30	0·80								0·33			3
4								0·17						4
5														5
6	0·84				0·81					0·00				6
7				0·26			0·17							7
8									0·00			0·12		8
9						0·00								9
10		1·43	0·58								0·52			10
11								0·10						11
12														12
13	0·65				0·31					3·28				13
14				0·27			2·00							14
15									0·00			0·02		15
16						0·52								16
17		0·05	1·27								1·20			17
18								0·38						18
19					0·35									19
20	0·48									0·50				20
21				0·03			0·16							21
22									1·20			0·06		22
23						1·00								23
24		0·12	0·49								0·20			24
25								1·01						25
26					0·11									26
27	0·00									0·45				27
28		0·53		1·43			0·09							28
29									0·71			0·21		29
30		×		0·06		0·06			0·00		0·00			30
31	0·41	×	0·08	×	0·07	×	0·46	0·22	×	0·76	×	0·31	Year's Total	31
TOTAL	2·38	3 43	3 22	2·05	1·65	1·70	2·88	1·88	1·97	4·99	2 25	0·72	29·12	
*Days with ·01 in. or more.														
*Days with ·04 in. or more.														

P. Pro. HEYWOOD & MIDDLETON WATER BOARD.

MANAGER.

40-9999

*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*)

[P. T. O.

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934. 2898

Kept at Naden (New Gauge)
in the County of Lancaster

Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground ft 15½ in.
,, Ground ,, Sea Level 948·19 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1						0·00							1
2		0·03	0·15								0·43		2
3								0·65					3
4					0·10								4
5	0·46									1·52			5
6				0·14			0·00						6
7									0·21			3·56	7
8						0·92							8
9		0·10	0·65								1·68		9
10								1·26					10
11					0·62								11
12	0·40									1·12			12
13				1·00			0·09						13
14									0·01			0·39	14
15						0·02							15
16		0·00	0·78								0·12		16
17								0·46					17
18					1·96								18
19	2·28									1·00			19
20				0·38			0·30						20
21									1·23			1·10	21
22						1·31							22
23		0·00	0·75								0·06		23
24								0·35					24
25					0·60								25
26	0·40									1·33			26
27				0·93			1·43						27
28		0·39							1·68			1·96	28
29						0·78							29
30		×	0·04	0·01		0·00			0·81		0·05		30
31	0·10	×	0·00	×	0·00	×	0·51	1·22	×	0·60	×	0·36	31
TOTAL	3·64	0·52	2·37	2·46	3·28	3·03	2·33	3·94	3·94	5·57	2·34	7·37	YEAR'S TOTAL ~~39~~ 40·79
*Days with ·01 in. or more.													
*Days with ·04 in. or more.													

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) James Birtwistle

MANAGER.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2898

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

Form 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Naden Dean (New G)

in the County of Lancs.

Diameter of Funnel of Gauge..................in.

Height of top of Gauge above Ground.........ft..........in.

,, Ground ,, Sea Level ....ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1		0.25	0.06								0.16			1
2								-						2
3					-									3
4	0.59									1.64				4
5				0.31			0.72							5
6									0.95			0.99		6
7						1.18								7
8		1.42	0.36								0.54			8
9								-						9
10					-									10
11	0.33									3.15				11
12				0.96				-						12
13									0.16			0.84		13
14						0.87								14
15		2.30	-								1.86			15
16								-						16
17					0.75									17
18	0.15									0.70				18
19				1.46			0.94							19
20									2.39			0.52		20
21						1.35								21
22		1.21	0.30								1.16			22
23								0.36						23
24					0.09									24
25	0.44									0.75				25
26				0.86			0.08							26
27									4.19			0.66		27
28		0.45				0.17								28
29			0.96								0.96			29
30		✕		-		0.24		1.69	0.61		0.47			30
31	0.26	✕	-	✕	0.04	✕	0.35	-	✕	2.12	✕	0.83		31
TOTAL	1.77	5.63	1.68	3.59	0.88	3.81	2.09	2.05	8.30	8.36	5.15	3.84	Year's Total 47.15	
* Days with .01 in. or more.														
* Days with .04 in. or more.														

P. Pro. HEYWOOD & MIDDLETON WATER BOARD.

40-9999.

† Spare column, no entries required.

* See Instruction 2 (f) on other side.

(Signed) James Burwith [P.T.O.

MANAGER.

COPY FOR OFFICIAL USE

Section A **for the entry of Daily Observations** Station No. 2898

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1936

Kept at Naden Dean Farm Norden

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft. 15½ in.

,, Ground ,, Sea Level 948.19 ft.

New Gauge

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1					0.00									1
2										0.00				2
3	0.05			0.28			0.04							3
4									2.02			0.86		4
5						0.59								5
6			0.83								0.81			6
7		0.35						1.86						7
8					0.00									8
9										0.00				9
10	1.39			0.00			1.64							10
11									2.24			0.67		11
12						0.89								12
13			0.58								3.21			13
14		0.00						0.26						14
15					0.08									15
16										0.64				16
17	0.28			0.32			1.63							17
18									0.81			1.26		18
19						0.75								19
20			0.08								1.59			20
21		0.92						1.35						21
22					0.00									22
23										1.98				23
24	0.45			0.44			1.72							24
25									0.48			0.12		25
26						1.34								26
27			0.31								0.00			27
28		0.83						0.00						28
29		0.07			0.63									29
30		✕		0.06		0.72			0.47	2.68	0.22			30
31	2.28	✕	1.06	✕	0.47	✕	0.54	0.08	✕	0.00	✕	1.22	W	31
TOTAL	4.45	2.17	2.86	1.10	1.18	4.29	5.57	3.55	6.02	5.30	5.83	4.13	Year's Total 46.45	
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) James Entwistle
Jn

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2898

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1937

Kept at Nadin Dean Farm (new Gauge.)

in the County of Lancaster

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft. 13½ in.

,, Ground ,, Sea Level 948.19 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	0.08									0.00				1
2				0.29			0.08							2
3									0.42			0.31		3
4						0.79								4
5		0.78	0.24								0.00			5
6								0.47						6
7					0.31									7
8	1.91									0.00				8
9				0.91			0.93							9
10									0.15			0.83		10
11						0.52								11
12		1.11	0.20								0.05			12
13								0.71						13
14					0.42									14
15	0.57									0.03				15
16				1.21			0.49							16
17									1.33			0.49		17
18						0.68								18
19		2.17	0.78								0.73			19
20								1.04						20
21					0.53									21
22	0.66									0.64				22
23				0.98			1.16							23
24									0.16			0.77		24
25						0.17								25
26		1.21	0.26								0.46			26
27								0.20						27
28		0.08			1.09									28
29	0.26									0.04				29
30		✗		0.10		0.44	0.02		0.10		0.85			30
31	0.27	✗	0.00	✗	0.00	✗	0.00	0.43	✗	0.45	✗	0.17		31
													Year's Total	
TOTAL	3.75	5.35	1.48	3.49	2.35	2.60	2.68	2.85	2.16	1.16	2.09	2.57	32.53	✓
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

(*Signed*) [P.T.O.

* See Instruction 3 (f) on other side.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2898

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938

Kept at NADEN DEAN FARM

in the County of LANCASTER

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 3½ in.

,, Ground ,, Sea Level 948·19 ft.

New Gauge

W

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1				0·00			0·02					0·51		1
2									0·00					2
3						1·16								3
4		0·05	0·00								0·83			4
5								1·59						5
6					0·00									6
7	0·66									4·00				7
8				0·58			2·16							8
9									0·47			2·14		9
10						0·48								10
11		0·56	0·16								0·11			11
12								0·55						12
13					0·31									13
14	1·58									3·47				14
15				0·00			1·50							15
16									0·09			1·16		16
17						0·02								17
18		0·00	0·12								1·34			18
19								1·69						19
20					0·84									20
21	1·22									1·10				21
22				0·00			0·34							22
23									0·61			0·07		23
24						1·30								24
25		0·56	0·34								2·51			25
26								0·89						26
27														27
28	1·26	0·71			0·83					0·81				28
29							1·02							29
30		✕		0·00		2·00			0·66		1·31	0·87		30
31	0·61	✕	0·62	✕	1·89	✕	0·03	0·33	✕	0·83	✕	0·90		31
TOTAL	5·33	1·88	1·24	0·58	3·87	4·96	5·07	5·05	1·83	10·21	6·10	5·65	Year's Total 51·77	✓
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) James Entwistle

[P.T.O.

C

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2898

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939

Kept at Haden Dean Farm Horden

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground ft. 15½ in.

,, Ground ,, Sea Level 948.19 ft.

New Gauge

W

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1									0.12			0.43		1
2														2
3		—	0.30			—					0.17			3
4								1.15						4
5					0.38									5
6	1.24									0.46				6
7				0.65			2.33							7
8									0.90			2.65		8
9						—								9
10		1.59	0.90								0.97			10
11								0.92						11
12					0.16									12
13	1.23									0.97				13
14				0.34			1.06							14
15									0.53			0.84		15
16						2.75								16
17		0.64	0.45								0.59			17
18								—						18
19					1.06									19
20	2.43									0.06				20
21				0.68			0.92							21
22									0.03			—		22
23						0.39								23
24		1.24	0.72								1.91			24
25								0.47						25
26					0.04									26
27	0.42									0.79				27
28		2.16		0.33			1.17							28
29									—			0.13		29
30		✕		—		0.97			—		3.67			30
31	—	✕	0.32	✕	—	✕	1.77	1.09	✕	0.18	✕	—		31
TOTAL	5.32	5.63	2.69	2.00	1.64	4.11	7.25	3.63	1.58	2.46	7.31	4.05	Year's Total 47.67	
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(Signed) J. Entwistle Ltd

P.T.O.

COPY FOR OFFICIAL USE

Station No. 2898

Section **A** for the entry of Daily Observations

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1940

Kept at Naden Dean Farm New Gauge

in the County of Lancaster

Diameter of Funnel of Gauge 5" in.

Height of top of Gauge above Ground 1 ft. 3½ in.

,, Ground ,, Sea Level 948·19 ft.

Weekly Gauge,

Jan 27th – 30th est'd from nearby sites
Snow circ. sent 30.4.41

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1			0·00											1
2		0·00									0·81			2
3					0·00			0·00						3
4														4
5	0·00			0·77						0·30				5
6														6
7						0·00	0·40		0·01			1·81		7
8			0·00											8
9		0·61									0·96			9
10					0·24			0·45						10
11														11
12	0·25			0·41						2·48				12
13														13
14						0·02	2·24		1·48			1·16		14
15			0·95											15
16		0·09									4·18			16
17					0·32			0·72						17
18														18
19	0·06			0·55						0·35				19
20														20
21						0·37	1·48		2·80			1·18		21
22			1·69											22
23		0·60									1·90			23
24					0·20			0·75						24
25														25
26	0·65			0·51						0·29				26
27														27
28	(1·63)					0·15	0·29		0·58			0·03		28
29		1·28	0·62											29
30		✕		0·34		0·27					0·24			30
31	~~0·03~~	✕ 0·00	0·12	✕	0·24	✕	0·33	0·21	✕ 0·00	1·45	✕ 0·04	0·88	Year's Total	31
TOTAL	(2·59) ~~0·99~~	2·58	3·38	2·58	1·00	0·81	4·74	2·13	4·87	4·87	8·13	5·03	~~41·11~~	42·71
* Days with .01 in. or more.														
* Days with .04 in. or more.														

† Spare column, no entries required.

*See Instruction 3 (f) on other side.

(Signed) Arthur S. Harvey

[P.T.O.

2899

Section **A** **for the entry o**

AIR MINISTR

FOR OFFICIAL USE.

ORGANIZATION.

FORM 1090.

REGIS

2899

LONGDEN END

1931 — 40

780502

Kept at Longden

in the County of L

Diameter of Funnel of Gauge

Height of top of Gauge above Grou

,, Ground ,, Sea

THE MORNING MEAS

An observer who does not conform *following*

year in the space on the right of

Jan. 1, following

Date	Jan.	Feb.	March								Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	12	03	.	18	.	19	.	.	04	13	.	.	1
2	02	09	.	67	07	1·10	01	.	96	06	09	05	2
3	.	.	.	07	.	09	38	.	49	.	1·96	56	3
4	.	07	.	35	.	.	11	.	1·50	14	40	44	4
5	.	08	.	.	24	76	03	49	12	.	.	39	5
6	.	32	03	.	.	30	60	03	12	65	25	.	6
7	.	.	05	.	.	85	.	29	.	34	07	18	7
8	09	36	04	09	05	.	36	62	01	11	35	.	8
9	.	1·03	04	35	.	09	01	39	03	04	37	05	9
10	14	18	04	.	28	30	.	26	04	.	42	.	10
11	65	77	.	04	.	09	09	03	31	.	68	.	11
12	07	38	.	03	.	01	54	.	19	28	34	.	12
13	.	.	14	.	10	01	28	03	.	.	.	.	13
14	21	13	.	.	14	71	03	89	02	.	41	01	14
15	36	45	.	15	19	03	10	45	.	.	01	04	15
16	84	18	.	48	43	46	11	94	31	.	.	.	16
17	11	20	.	23	02	08	45	43	05	.	05	.	17
18	42	02	.	35	.	62	52	12	.	01	88	.	18
19	18	28	.	11	.	.	01	1·00	01	04	.	01	19
20	04	19	01	03	.	08	.	14	.	.	13	.	20
21	51	09	07	.	07	12	02	23	.	.	01	.	21
22	23	10	.	01	14	07	02	.	.	.	.	.	22
23	48	.	.	22	16	36	46	.	.	.	96	25	23
24	18	44	.	06	62	.	11	.	.	.	03	08	24
25	16	1·26	.	38	06	.	10	.	.	.	07	12	25
26	07	17	.	30	.	.	.	.	.	.	53	04	26
27	62	11	.	03	08	.	54	.	.	26	1·11	12	27
28	38	46	.	11	13	.	27	.	04	.	.	10	28
29	31		.	01	18	.	19	.	.	78	04	.	29
30	01	×	.	08	.	.	.	.	07	.	01	.	30
31	66	×	.	×	37	×	06	.	×	03	×	10	31
TOTAL	6·86	7·39	·42	4·33	3·33	6·32	5·40	6·34	4·31	2·87	9·17	2·54	YEAR'S TOTAL 59·28
*Days with ·01 in. or more.	24	24	8	23	18	20	25	16	17	13	23	16	227
*Days with ·04 in. or more.	22	22	6	18	17	17	18	13	[illegible]	[illegible]	19	14	190

40-9999

*See Instruction 2 (*f*) on other side.

(Signed) [P.T.O.

2899

Section **A** for the entry o FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931.

Kept at Longden End

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 751 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	12	03	.	18	.	19	.	.	04	13	.	.	1
2	02	09	.	67	07	1·10	01	.	96	06	09	05	2
3	.	.	.	07	.	09	38	.	49	.	1·96	56	3
4	.	07	.	35	.	.	11	.	1·50	14	40	44	4
5	.	08	.	.	24	76	03	49	12	.	.	39	5
6	.	32	03	.	.	30	60	03	12	65	25	.	6
7	.	.	05	.	.	85	.	29	.	34	07	18	7
8	09	36	04	09	05	.	36	62	01	11	35	.	8
9	.	1·03	04	35	.	09	01	39	03	04	37	05	9
10	14	18	04	.	28	30	.	26	04	.	42	.	10
11	65	77	.	04	.	09	09	03	31	.	68	.	11
12	07	38	.	03	.	01	54	.	19	28	34	.	12
13	.	.	14	.	10	01	28	03	.	.	.	.	13
14	21	13		.	14	71	03	89	02	.	41	01	14
15	36	45	.	15	19	03	10	45	.	.	01	04	15
16	84	18	.	48	43	46	11	94	31	.	.	.	16
17	11	20	.	23	02	08	45	43	05	.	05	.	17
18	42	02		35	.	62	52	12	.	01	88	.	18
19	18	28	.	11	.	.	01	1·00	01	04	.	01	19
20	04	19	01	03	.	08	.	14	.	.	13	.	20
21	51	09	07	.	07	12	02	23	.	.	01	.	21
22	23	10	.	01	14	07	02	.	.	.	.	.	22
23	48	.	.	22	16	36	46	.	.	.	96	25	23
24	18	44	.	06	62	.	11	.	.	.	03	08	24
25	16	1·26	.	38	06	.	10	.	.	.	07	12	25
26	07	17	.	30	.	.	.	.	.	.	53	04	26
27	62	11	.	03	08	.	54	.	.	26	1·11	12	27
28	38	46	.	11	13	.	27	.	04	.	.	10	28
29	31		.	01	18	.	19	.	.	78	04	.	29
30	01	X	.	08	.	.	.	.	07	.	01	.	30
31	66	X	.	X	37	X	06	.	X	03	X	10	31
TOTAL	6·86	7·39	·42	4·33	3·33	6·32	5·40	6·34	4·31	2·87	9·17	2·54	YEAR'S TOTAL 59·28
*Days with ·01 in. or more.	24	24	8	23	18	20	25	16	17	13	23	16	227
*Days with ·04 in. or more.	22	22	6	18	17	17	18	13	[illegible]	[illegible]	19	14	190

40-9999

(Signed) [P.T.O.

*See Instruction 2 (*f*) on other side.

2899

Section A **for the entry of Daily Observations.** **COPY FOR OFFICIAL USE.**

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Longdwend

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 751 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·53	02	·	49	23	·	29	03	86	48	20	02	1
2	1·31	·	·	·	60	·	01	04	1·54	19	27	44	2
3	14	·	·	·	·	·	27	·	08	·	·	13	3
4	05	02	·	04	·	·	09	01	03	06	21	01	4
5	1·08	·	16	36	04	·	01	01	13	·	·	02	5
6	1·31	·	26	65	05	·	·	·	35	·	·	·	6
7	20	·	65	19	·	·	·	·	77	22	02	·	7
8	·	·	·	16	·	·	·	·	10	72	01	01	8
9	15	25	·	80	05	·	·	·	01	·	·	09	9
10	54	09	01	10	·	·	·	·	63	44	01	08	10
11	03	06	01	12	57	39	1·40	·	10	·	03	·	11
12	49	·	·	·	61	02	10	06	02	54	02	·	12
13	02	06	·	14	14	·	11	02	42	57	03	22	13
14	06	·		03	·	·	04	01	02	11	13	·	14
15	·		·	05	45	·	·	·	·	20	22	15	15
16	28	·	·	12	02	·	04	01	·	21	01	15	16
17	·	·	·	01	·	·	12	08	03	63	·	·	17
18	·	·	·	·	09	·	·	·	02	·	02	·	18
19	·	01	·	23	34	·	·	·	·	40	·	·	19
20	·	·	·	20	46	·	04	40	·	21	08	·	20
21	05	·	24	05	37	·	06	41	·	59	11	04	21
22	02	·	20	17	14	·	10	·	·	08	88	14	22
23	·	02	·	06	51	·	10	·	·	06	17	09	23
24	05	·	·	03	01	01	42	·	29	·	22	01	24
25	·	05	·	08	09	01	08	·	06	94	23	·	25
26	·	01	·	17	27	·	57	·	07	37	44	·	26
27	·	·	35	20	47	08	20	·	·	04	12	17	27
28	·	01	22	05	16	·	17	·	·	·	·	13	28
29	07	·	63	13	07	10	35	38	16	1·03	19	33	29
30	·	×	15	01	·	49	13	04	04	15	42	15	30
31	02	×	18	×	01	×	09	·	×	·	×	08	31
TOTAL	6·40	·60	3·06	4·64	5·75	1·10	4·79	1·50	5·73	8·24	3·98	2·46	YEAR'S TOTAL 48·25
*Days with ·01 in. or more.	19	11	12	26	23	7	23	13	21	22	23	20	220
*Days with ·04 in. or more.	15	5	10	22	20	4	21	7	15	22	[illegible]	15	171

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*See Instruction 2 (*f*) on other side.

(*Signed*)

[P.T.O.

2899

Section | **A** | **for the entry of Daily Observations.** FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933.

Kept at Longdenend

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 751 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	08	85	02	.	.	.	.	02	08	.	28	.	1
2	57	.	23	29	.	30	.	10	.	.	02	.	2
3	02	60	34	.	33	.	.	.	.	.	05	.	3
4	28	20	31	.	17	.	.	.	.	02	.	.	4
5	23	24	09	01	13	.	.	.	.	.	05	.	5
6	03	10	01	.	22	.	.	.	.	.	01	08	6
7	11	45	17	.	11	.	05	04	.	65	.	03	7
8	39	15	14	02	08	.	32	03	.	01	02	16	8
9	.	63	.	37	04	01	96	·07	.	99	13	.	9
10	17	10	.	.	.	08	21	.	.	1·16	15	.	10
11	.	.	.	.	.	.	94	.	.	56	.	03	11
12	01	.	.	.	.	25	20	.	.	08	.	04	12
13	01	.	03	.	20	01	52	.	06	32	22	·1	13
14	34	.	04	.	11	.	12	03	.	08	33	02	14
15	57	.	04	.	.	.	02	10	.	28	76	02	15
16	26	03	21	02	03	28	02	.	.	24	09	.	16
17	07	.	1·52	01	.	58	.	17	08	01	27	.	17
18	.	13	35	.	05	76	.	06	.	.	10	.	18
19	.	02	55	03	.	28	.	.	09	.	08	01	19
20	.	17	.	01	.	02	.	54	12	.	01	.	20
21	.	01	.	.	.	09	.	45	19	.	.	02	21
22	.	.	.	.	.	40	.	11	.	10	.	.	22
23	.	04	.	32	03	01	.	05	17	03	.	.	23
24	.	40	.	18	10	65	.	.	83	.	01	.	24
25	.	71	.	21	.	.	.	.	49	.	01	03	25
26	.	62	.	60	.	.	.	.	.	26	05	01	26
27	.	01	.	01	.	.	.	.	03	01	01	.	27
28	.	.	.	12	.	.	10	.	02	16	.	.	28
29	.		.	01	.	.	12	.	01	06	.	05	29
30	05	×	11	01	15	.	27	.	.	26	.	23	30
31	38	×	07	×	.	×	37	15	×	21	×	.	31

	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	YEAR'S TOTAL
TOTAL	3·57	5·46	4·23	2·22	1·75	3·72	4·22	1·92	2·17	5·49	2·65	·73	38·13
*Days with ·01 in. or more.	17	19	17	16	14	14	14	14	12	20	20	13	190
*Days with ·04 in. or more.	13	15	14	7	12	10	12	11	[illegible]	15	13	5	136

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*See Instruction 2 (*f*) on other side.

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(Signed)

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2899

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Longdenend

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 751 ft.

Dup

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	17	.	02	.	.	.	.	11	08	15	08	48		1
2	03	03	11	.	01	.	.	67	08	.	15	59		2
3	12	02	.	.	.	.	.	04	03	11	09	08		3
4	22	.	17	11	05	.	.	.	05	83	.	80		4
5	.	.	09	.	10	.	.	35	.	46	08	26		5
6	.	.	11	10	62	12	.	09	.	29	.	36		6
7	38	06	20	02	.	02	.	.	.	17	34	36		7
8	.	01	04	.	10	31	.	10	02	13	75	06		8
9	.	08	05	13	.	.	.	16	.	05	85	03		9
10	.	01	46	24	.	.	.	18	.	49	09	.		10
11	19	.	09	42	.	.	.	15	.	03	04	17		11
12	05	.	08	23	.	.	23	04	.	06	.	02		12
13	36	.	.	05	11	.	16	03	.	28	01	.		13
14	23	.	14	.	08	01	.	.	.	46	12	13		14
15	54	.	35	.	81	.	.	12	59	.	03	30		15
16	51	.	16	.	14	.	.	.	.	.	10	08		16
17	46	.	32	.	13	.	16	.	33	07	.	33		17
18	47	.	33	08	64	17	06	05	.	.	.	25		18
19	01	.	36	.	14	59	.	.	36	19	.	11		19
20	.	.	02	14	42	.	.	10	15	19	01	03		20
21	07	.	.	.	08	58	.	09	07	12	.	.		21
22	68	.	03	.	01	.	.	32	56	11	.	.		22
23	03	.	12	51	.		54	04	.	15	03	07		23
24	.	20	02	13	.	09	04	.	40	16	.	.		24
25	11	09	.	09	01	.	33	.	23	42	.	40		25
26	15	.	06	35	.	20	52	.	51	12	07	12		26
27	.	02	.	25	.	34	59	.	09	45	01	30		27
28	.	.	.	06	.	10	19	19	.	19	.	68		28
29	.		01	.	.	.	13	54	43	10	.	14		29
30	08	X	.	.	..	.	13	50	12	18	.	12		30
31	02	X	.	X	.	X	41	01	X	14	X	16		31
TOTAL	4·28	·52	3·34	2·91	3·45	2·53	3·49	3·88	4·10	6·10	2·85	6·43	Year's Total 43.88	
*Days with ·01 in. or more.	21	9	23	16	16	11	13	21	17	27	17	26	217	
*Days with .04 in. or more.	17	4	18	15	13	10	13	19	15	26	12	23	185	

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*See Instruction 2 (*f*) on other side.

† Spare column, no entries required

(*Signed*)

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** **for the entry of Daily Observations.** **Station No.** 2899

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Lougdenend

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 751 ft.

days ✓

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	**Jan.**	**Feb.**	**March**	**April**	**May**	**June**	**July**	**August**	**Sept.**	**Oct.**	**Nov.**	**Dec.**	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	53	40	06	04	.	.	05	.	09	1·15	12	29	1
2	03	19	.	.	.	23	01	.	08	22	06	38	2
3	09	69	11	04	.	03	57	.	45	01	16	15	3
4	.	01	03	01	.	26	11	01	35	20	.	01	4
5	.	68	19	27	.	1·06	08	.	14	05	15	24	5
6	.	02	01	08	.	47	.	.	.	.	.	01	6
7	03	.	.	23	.	38	.	.	.	31	26	25	7
8	.	.	.	12	.	.	.	.	.	25	02	37	8
9	01	.	01	48	.	10	.	.	.	2·20	20	.	9
10	.	08	02	47	.	02	.	.	.	55	09	.	10
11	60	15	.	.	.	15	.	.	.	39	15	08	11
12	.	16	.	.	.	91	.	.	08	01	.	.	12
13	21	09	.	11	33	.	.	.	11	12	01	.	13
14	.	.	.	23	10	12	.	.	12	.	1·21	24	14
15	.	1·96	.	43	08	.	.	.	55	24	19	39	15
16	.	45	10	35	06	40	18	.	70	.	44	.	16
17	.	04	.	52	54	15	02	01	51	08	59	.	17
18	02	02	.	11	07	11	37	.	53	51	13	.	18
19	.	12	.	30	.	33	26	.	.	14	22	.	19
20	01	99	.	32	.	19	20	.	.	.	54	.	20
21	.	24	01	02	.	.	.	.	81	19	23	25	21
22	.	21	15	02	.	.	.	.	08	.	01	.	22
23	02	.	99	59	.	.	.	53	03	27	.	.	23
24	56	54	03	.	.	.	.	.	1·49	06	.	24	24
25	16	12	40	.	.	30	.	.	.	.	1·0	07	25
26	.	02	.	.	.	.	09	1·24	58	68	23	20	26
27	01	07	.	.	.	11	45	.	48	1·25	46	13	27
28	05	20	.	.	03	.	.	.	12	58	19	01	28
29	.		04	.	.	.	.	.	15	68	09	26	29
30	07	X	.	.	.	18	.	17	51	78	92	11	30
31	03	X	03	X	.	X	.	.	X	31	X	27	31
TOTAL	2·43	7·45	2·18	4·74	1·21	5·50	2·39	1·96	7·96	11·23	6·75	3·94	YEAR'S TOTAL 57·74
*Days with ·01 in. or more.	16	23	15	20	7	19	12	5	21	25	25	20	208 ✓
*Days with .04 in. or more.	8	19	8	17	6	17	10	3	20	23	22	17	170 ✓

40-9999

*See Instruction 2 (*f*) on other side.

(*Signed*) Chas. Beatley

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2899

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Longdenend

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 751 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	01	12	05	34	.	03	.	37	05	.	27	39		1
2	01	05	04	10	.	1·08	01	19	04	.	04	17		2
3	01	.	.	.	.	69	04	22	66	.	.	19		3
4	36	17	26	.	.	02	01	09	48	.	28	38		4
5	06	02	54	.	01	.	.	19	58	01	20	41		5
6	15	.	08	.	.	01	09	48	66	.	15	.		6
7	02	.	11	.	.	.	26	.	1·21	.	16	23		7
8	36	.	17	.	.	.	.	.	04	.	62	18		8
9	31	.	03	.	.	.	01	.	08	02	1·13	.		9
10	13	.	.	.	.	.	40	.	.	.	1·15	.		10
11	.	.	.	01	.	17	35	02	03	.	55	01		11
12	.	.	.	17	06	47	51	05	51	08	36	02		12
13	06	.	.	14	03	02	10	.	.	38	01	59		13
14	.	.	.	20	.	33	11	09	53	20	27	90		14
15	17	.	04	25	02	18	28	35	10	.	61	15		15
16	03	04	02	08	01	.	03	.	.	03	79	.		16
17	15	32	01	01	05	.	24	15	.	1·01	08	25		17
18	.	06	.	01	.	09	22	11	.	1·03	.	02		18
19	16	39	04	03	.	13	17	27	.	12	.	.		19
20	31	06	.	.	.	.	02	.	01	04	.	.		20
21	11	.	05	09	.	01	.	.	.	07	.	.		21
22	21	59	03	03	02	1·40	19	.	.	.	.	09		22
23	.	03	33	22	11	.	61	02	.	08	.	.		23
24	11	09	.	08	51	.	02	08	20	1·08	01	09		24
25	22	03	02	07	.	04	13	.	51	28	.	03		25
26	03	22	21	02	.	.	01	.	08	88		.		26
27	78	.	04	.	.	.	.	.	18	33	.	.		27
28	53	78	08	.	.	.	08	.	.	.	01	13		28
29	10	52	95	.	15	48	.	.	.	12	23	12		29
30	29	✕	06	.	78	04	29	.	.	80	14	03		30
31	03	✕	02	✕	.	✕	11	.	✕	.	✕	43		31
													Year's Total	
TOTAL	4·71	3·49	3·18	1·85	1·75	5·19	4·29	2·68	5·95	6·56	7·06	4·81	51·52	✓
* Days with .01 in. or more.	26	16	22	17	11	17	25	15	18	18	20	21	226	✓
* Days with .04 in. or more.	19	13	16	11	6	12	18	13	16	15	17	16	172	✓

40-9999.

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) Chas. J. Oakley.

[P.T.O.

Section **A** **for the entry of Daily Observations.**

FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1937.

2899

Kept at Longdenend

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 751 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	07	22	15	.	.	.	03	.	45	.	.	23	1
2	41	40	11	12	.	.	05	.	01	01	.	11	2
3	.	15	05	07	04	76	01	.	01	.	.	01	3
4	36	03	06	16	12	01	04	05	.	.	.	75	4
5	1·43	.	20	.	.	.	03	.	01	.	.	01	5
6	11	.	06	10	08	.	.	64	05	.	05	14	6
7	10	33	01	44	07	06	.	.	10	.	02	05	7
8	.	46	01	05	.	21	08	.	.	.	03	08	8
9	03	27	.	05	24	01	38	55	.	.	.	01	9
10	03	11	.	.	03	.	01	.	.	04	.	42	10
11	.	.	99	.	21	.	02	.	.	.	.	03	11
12	16	36	15	02	08	05	07	09	27	.	.	24	12
13	.	15	07	01	03	75	.	10	01	01	.	20	13
14	.	12	21	.	.	.	.	18	14	.	.	21	14
15	51	49	.	34	.	.	51	.	15	.	.	04	15
16	16	69	06	21	07	.	.	19	19	.	.	02	16
17	03	04	36	07	.	12	.	04	21	.	.	–	17
18	50	36	23	14	.	.	.	28	24	.	54	.	18
19	12	33	01	23	01	16	11	02	.	.	85	.	19
20	11	20	.	12	56	01	.	.	.	.	01	05	20
21	03	05	03	11	.	.	39	.	.	.	.	26	21
22	02	.	20	07	04	.	30	.	.	46	20	20	22
23	04	.	.	.	26	.	22	.	.	71	39	.	23
24	06	27	18	.	06	.	07	.	18	11	.	05	24
25	05	47	.	.	.	.	.	08	.	09	.	01	25
26	.	35	10	.	57	.	.	12	08	.	.	08	26
27	.	95	.	18	.	.	.	.	.	68	.	04	27
28	.	20	.	.	.	08	.	.	.	14	01	.	28
29	.		.	.	.	01	.	.	.	04	16	03	29
30	15	✕	.	.	.	29	.	11	.	14	84	06	30
31	40	✕	.	✕	01	✕	.	06	✕	12	✕	.	31
TOTAL	4·88	7·00	3·24	2·49	2·43	2·52	2·32	2·51	2·10	2·55	3·10	3·33	YEAR'S TOTAL 38·47 ✓
*Days with ·01 in. or more.	22	23	20	18	17	13	16	14	15	12	11	25	206 ✓
*Days with ·04 in. or more.	17	22	16	16	12	9	11	13	[illegible]	[illegible]	[illegible]	18	62 ✓

40-9999

(Signed) Chas. J. Oakley [P.T.O.

*See Instruction 2 (*f*) on other side.

Section **A** for the entry of Daily Observations. FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1938.

2899

Kept at Longdenend

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 751 ft.

OLDHAM CORPORATION
ENGINEER'S OFFICE
4 JAN 1939
PIETHORNE, NR. ROCHDALE
WATERWORKS

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	.	06	.	04	.	79	03	08	.	.	21	33	1
2	10	09	.	54	16	58	01	.	.	1·53	16	40	2
3	02	.	.	.	.	04	13	.	23	1·41	28	05	3
4	05	.	.	08	.	04	38	22	.	44	47	1·41	4
5	.	03	.	08	.	06	33	94	04	48	01	08	5
6	19	01	.	.	.	05	35	.	04	45	.	01	6
7	39	.	.	.	.	.	43	01	36	48	.	.	7
8	33	01	.	.	.	.	37	02	.	1·16	.	25	8
9	25	55	16	.	.	25	35	05	.	14	.	34	9
10	.	14	0.2	.	.	09	74	.	.	14	.	04	10
11	17	09	.	.	.	02	·28	04	05	12	16	02	11
12	31	.	.	.	23	.	.	12	.	1·34	25	.	12
13	02	01	.	.	01	.	05	.	07	50	42	35	13
14	28	06	.	.	17	.	21	.	06	05	04	04	14
15	59	.	02	.	.	.	26	·37	.	02	.	33	15
16	1·21	.	06	.	26	.	18	34	.	14	08	18	16
17	.	01	.	.	32	.	17	20	10	65	04	01	17
18	15	.	.	.	12	09	.	50	19	58	35	.	18
19	.	.	.	.	.	.	.	47	26	.	.	18	19
20	26	.	.	.	.	.	.	02	05	.	50	04	20
21	02	.	08	.	.	.	.	01	01	.	05	08	21
22	.	.	.	02	.	29	.	.	.	.	34	05	22
23	01	.	.	.	24	58	.	.	·03	.	84	02	23
24	16	01	26	.	09	17	85	41	·05	.	28	.	24
25	41	45	07	.	.	10	13	01	.	45	69	08	25
26	26	51	22	.	04	09	.	.	12	28	16	·04	26
27	40	29	01	.	84	95	21	22	01	.	54	.	27
28	43	20	20	.	36	89	09	24	39	03	04	12	28
29	13		26	.	1·25	26	18	.	.	16	16	43	29
30	36	✕	.	.	16	23	01	.	34	02	30	21	30
31	38	✕	06	✕	40	✕	.	.	✕	63	✕	95	31
TOTAL	6·88	2·52	1·42	·76	4·65	5·57	5·74	4·27	2·40	11·86	6·47	6·15	YEAR'S TOTAL 58·69
*Days with ·01 in. or more.	25	16	12	5	15	19	22	19	18	23	23	26	223
*Days with ·04 in. or more.	21	10	9	4	14	18	19	14	15	20	22	22	188

40-9999

(Signed) Charles Burgess [P.T.O.

*See Instruction 2 (*f*) on other side.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2879

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1939.

Kept at Longden End.
in the County of Lancashire
Diameter of Funnel of Gauge 5 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 751 ft.

acc ✓
Day ✓

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	32	.	32	02	.	.	.	16	03	.	.	66		1
2	11	.	02	07	.	.	59	45	75	07	06	14		2
3	07	.	.	10	.	.	.	17	.	.	04	77		3
4	31	.	42	63	.	.	70	.	.	.	02	78		4
5	.	.	.	.	51	.	30	08	.	14	36	05		5
6	60	24	01	.	.	.	58	.	.	.	37	.		6
7	40	43	26	.	13	.	10	.	.	.	27	30		7
8	54	18	32	02	.	.	86	08	.	10	41	52		8
9	11	72	.	.	.	.	11	35	.	49	09	65		9
10	30	02	.	.	.	x	.	61	71	14	03	11		10
11	60	15	23	.	.	x 30	.	01	01	.	.	02		11
12	38	15	.	.	.	32	.	.	.	.	03	.		12
13	06	.	01	42	x	13	05	.	05	06	02	.		13
14	60	.	01	05	x 55	46	41	.	.	05	41	.		14
15	19	09	02	81	16	1·03	11	.	02	.	17	.		15
16	20	.	07	.	37	.	.	.	.	.	06	.		16
17	59	35	02	08	07	01	12	.	.	30	08	.		17
18	14	29	01	.	.	21	17	.	.	01	79	.		18
19	26	.	.	.	.	.	23	.	.	.	.	01		19
20	01	.	01	.	.	28	16	05	01	.	.	.		20
21	11	18	56	17	16	01	.	01	05	.	.	.		21
22	14	28	12	01	01	.	12	.	.	03	64	.		22
23	01	60	07	16	.	.	07	.	.	59	25	03		23
24	02	09	05	12	.	06	01	01	.	03	02	.		24
25	61	32	03	.	.	06	.	.	.	.	1·88	01		25
26	04	05	01	.	01	.	.	41	.	32	71	02		26
27	08	1·53	57	.	.	32	09	05	.	25	39	07		27
28	03	28	36	07	.	41	69	.	.	.	90	.		28
29	.	X	.	.	.	.	1·39	.	.	35	53	.		29
30	.	X	01	.	.	14	·16	.	.	.	35	.		30
31	.	X	.	X	.	X	17	01	X	05	X	.	Year's Total	31
TOTAL	6·83	5·95	3·51	2·73	1·97	3·74	7·19	2·45	1·63	2·98	8·88	4·14	52·00	
* Days with .01 in. or more.	27	18	23	14	10	15	22	14	8	16	25	15	207	
* Days with .04 in. or more.	23	17	12	11	8	13	21	10	4	13	20	10	162	

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* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(Signed) Charles Brassfield

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2899

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1940

Kept at Longden End

in the County of Lancashire

Diameter of Funnel of Gauge 5 in.

Height of top of Gauge above Ground 1 ft. 0 in.

" Ground " Sea Level 751 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·	× 10	·	·26	·	·	·	·	·	·	·54	·30		1
2	·	× 01	·	·20	·	·	·09	·	·	·	·59	·20		2
3	06	× 04	·	·16	·	·	·08	·	·	·08	·04	·24		3
4	·	11	·01	·10	·	·	·08	·	·	·24	·31	·25		4
5	·	·	·	·	·15	·	·09	·	·	·64	·11	·50		5
6	05	30	·	·	·	·	·02	·	·	·45	·04	·18		6
7	14	24	·	·23	·16	·	·03	·28	·15	·04	·	·		7
8	01	·	·03	·05	·	·	·01	·03	·	·24	·05	·26		8
9	·	·	·22	·	·	·	·82	·34	·33	·62	1·35	·19		9
10	·	·	·04	·	·	·01	·34	·49	·	·15	·54	·59		10
11	·	05	·10	·08	·	·05	·44	·	·	·	1·54	·		11
12	·	·	·40	·	·	·	·19	·02	·62	·	·51	·		12
13	·	06	·24	·01	·	·	·	·04	·51	·	·06	·		13
14	·	06	·02	·30	·16	·	·02	·14	·11	·	·08	·64		14
15	·	·	·08	·01	·11	·01	·	·	·	·01	·02	·05		15
16	13	10	·04	·11	·	·	·46	·	1·52	·43	·26	·08		16
17	·	03	·62	·	·02	·	·30	·	·20	·	·51	·		17
18	10	16	·38	·80	·	·	·01	·35	·19	·	·01	·34		18
19	·	14	·29	·05	·	·	·38	·	·48	·02	·36	·		19
20	·	03	·08	·33	·	·	1·13	·55	·22	·14	·18	·		20
21	02	·	·33	·02	·	·35	·10	·04	·06	·09	·95	·		21
22	·	06	·04	·	·08	·04	·	·05	·44	·02	·	·01		22
23	·	32	·04	·10	·02	·	·13	·	·06	·05	·21	·		23
24	69	01	·	·05	·02	·	·	·	·	·02	·	·09		24
25	02	·	·	·	·	·06	·	·	·	·10	·	·		25
26	64	11	·04	·	·04	·08	·	·	·	·	·02	·		26
27	× 04	45	·	·19	·	·	·62	·	·	·	·05	·		27
28	× 02	44	·	·	·16	·	·	·12	·	·	·	·05		28
29	·	02	·31	·01	·01	·43	·01	·	·	·01	·	·40		29
30	× 06	✕	·	·21	·	·	·	·	·	·51	·01	·35		30
31	× 23	✕	·21	✕	·02	✕	·	·04	✕	·84	✕	·04		31
TOTAL	2·24	2·93	3·91	3·24	·98	1·06	5·35	2·58	4·92	5·03	8·46	5·09	Year's Total 45·82	
* Days with .01 in. or more.	14	21	20	20	12	8	21	13	13	20	24	19	205	
* Days with .04 in. or more.	10	16	14	16	4	6	15	11	13	15	20	18	164	

1·04

† Spare column, no entries required.

(*Signed*) Charles Burfield

* See Instruction 3 (f) on other side.

P.T.O.

Section **A** for the entry

AIR MINIST

FOR OFFICIAL USE.

L ORGANIZATION.

2900

FORM 1090.

REGIS

Kept at Hollingworth L

in the County of Lanc

Diameter of Funnel of Gauge

Height of top of Gauge above Gro

,, Ground ,, Sea

THE MORNING MEAS

An observer who does not conform
year in the space on the right of

Please read

following

Jan. 1, following.

2900
LITTLEBOROUGH
HOLLINGWORTH LAKE
1931 — 40

780502

Date	Jan.	Feb.	March								Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·09	·02	–	·16	–	·08	–	–	·04	·09	–	–	1
2	·01	·08	–	·64	·03	1·05	–	–	·90	·05	·04	·04	2
3	–	–	–	·03	–	·10	·33	–	·35	·01	1·40	·49	3
4	–	·05	–	·28	–	–	·09	–	1·00	·09	·24	·42	4
5	–	·04	–	–	·20	·41	·02	·36	·04	–	–	·34	5
6	–	·33	–	–	–	·23	·41	·01	·12	·54	·24	–	6
7	–	–	–	–	–	·68	–	·20	–	·29	·08	·18	7
8	·06	·29	·01	·08	·02	–	·24	·48	·02	·10	·24	·01	8
9	–	·81	·02	·30	–	·03	–	·34	·02	·04	·29	·03	9
10	·11	·14	–	–	·21	·24	–	·20	·02	–	·34	–	10
11	·46	·59	–	·03	–	·04	·10	·01	·31	–	·63	–	11
12	·05	·16	–	·03	–	–	·41	–	·16	·25	·30	–	12
13	–	–	·14	–	·08	·01	·33	·02	–	–	–	–	13
14	·13	·12	–	–	–	·41	·01	·43	·02	–	·39	–	14
15	·22	·40	–	·13	·21	·02	·11	·65	–	–	·03	·02	15
16	·51	·12	–	·38	·48	·42	·05	·69	·28	–	–	–	16
17	·10	·09	–	·14	·01	·06	·33	·30	·03	–	·04	–	17
18	·32	–	–	·16	–	·61	·50	·11	–	–	·82	–	18
19	·15	·26	–	·03	–	–	–	·86	–	·02	–	·02	19
20	·03	·15	·01	–	–	·04	–	·11	–	–	·13	–	20
21	·46	·10	·04	–	·05	·10	·02	·20	–	–	·02	–	21
22	·23	·09	–	–	·09	·05	·01	–	–	–	–	–	22
23	·34	·01	–	·23	·14	·30	·34	–	–	–	·85	·22	23
24	·12	·36	–	·04	·64	–	·10	–	–	–	·03	·05	24
25	·13	·88	–	·28	·10	–	·16	–	–	–	·04	·10	25
26	·05	·13	–	·28	–	–	–	–	–	–	·44	·02	26
27	·44	·11	–	·02	·06	–	·36	–	–	·24	1·04	·10	27
28	·29	·24	–	·10	·08	–	·14	–	·08	–	–	·05	28
29	·22	×	–	·02	·20	–	·12	–	–	·43	·03	–	29
30	–	×	–	·04	–	–	–	–	·04	–	·01	–	30
31	·43	×	–	×	·35	×	·10	–	×	·02	×	·09	31
TOTAL	5·31	5·60	·25	3·43	2·98	5·54	4·61	5·30	3·46	2·50	8·15	2·24	YEAR'S TOTAL 49·40
Days with ·01 in. or more.	23	24	5	21	14	19	22	16	16	13	23	16	215
Days with ·04 in. or more.	21	22	2	15	14	16	18	13	[illegible]	[illegible]	18	11	141

40-9999

(Signed)

[P.T.O.

Section **A** for the entry

2900

FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1931 .

Kept at Hollingworth Lake (Littleborough)
in the County of Lancashire
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 610 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following.

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·09	·02	–	·16	–	·08	–	–	·04	·09	–	–	1
2	·01	·08	–	·64	·03	1·05	–	–	·90	·05	·04	·04	2
3	–	–	–	·03	–	·10	·33	–	·35	·01	1·40	·49	3
4	–	·05	–	·28	–	–	·09	–	1·00	·09	·24	·42	4
5	–	·04	–	–	·20	·41	·02	·36	·04	–	–	·34	5
6	–	·33	–	–	–	·23	·41	·01	·12	·54	·24	–	6
7	–	–	–	–	–	·68	–	·20	–	·29	·08	·18	7
8	·06	·29	·01	·08	·02	–	·24	·48	·02	·10	·24	·01	8
9	–	·81	·02	·30	–	·03	–	·34	·02	·04	·29	·03	9
10	·11	·14	–	–	·21	·24	–	·20	·02	–	·34	–	10
11	·46	·59	–	·03	–	·04	·10	·01	·31	–	·63	–	11
12	·05	·16	–	·03	–	–	·41	–	·16	·25	·30	–	12
13	–	–	·14	–	·08	·01	·33	·02	–	–	–	–	13
14	·13	·12	–	–	–	·41	·01	·43	·02	–	·39	–	14
15	·22	·40	–	·13	·21	·02	·11	·65	–	–	·03	·02	15
16	·51	·12	–	·38	·48	·42	·05	·69	·28	–	–	–	16
17	·10	·09	–	·14	·01	·06	·33	·30	·03	–	·04	–	17
18	·32	–	–	·16	–	·61	·50	·11	–	–	·82	–	18
19	·15	·26	–	·03	–	–	–	·86	–	·02	–	·02	19
20	·03	·15	·01	–	–	·04	–	·11	–	–	·13	–	20
21	·46	·10	·04	–	·05	·10	·02	·20	–	–	·02	–	21
22	·23	·09	–	–	·09	·05	·01	–	–	–	–	–	22
23	·34	·01	–	·23	·14	·30	·34	–	–	–	·85	·22	23
24	·12	·36	–	·04	·64	–	·10	–	–	–	·03	·05	24
25	·13	·88	–	·28	·10	–	·16	–	–	–	·04	·10	25
26	·05	·13	–	·28	–	–	–	–	–	–	·44	·02	26
27	·44	·11	–	·02	·06	–	·36	–	–	·24	1·04	·10	27
28	·29	·24	–	·10	·08	–	·14	–	·08	–	–	·05	28
29	·22	×	–	·02	·20	–	·12	–	–	·43	·03	–	29
30	–	×	–	·04	–	–	–	–	·04	–	·01	–	30
31	·43	×	–	×	·35	×	·10	–	×	·02	×	·09	31
TOTAL	5·31	5·60	·25	3·43	2·98	5·54	4·61	5·30	3·46	2·50	8·15	2·24	YEAR'S TOTAL 49·40
Days with ·01 in. or more.	23	24	5	21	14	19	22	16	16	13	23	16	215
Days with ·04 in. or more.	21	22	2	15	14	16	18	13	[illegible]	[illegible]	18	11	141

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(Signed)

[P.T.O.

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Section **A** for the entry of Daily Observations. COPY FOR OFFICIAL USE.

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1932.

Kept at Hollingworth Lake (Littleborough)
in the County of Lancashire
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 610 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·43	·01	—	·48	·14	—	·28	·03	·69	·35	·18	·01	1
2	1·16	—	—	—	·35	—	·01	·03	1·20	·12	·19	·35	2
3	·12	—	—	—	—	—	·23	—	·04	—	—	·10	3
4	·08	·01	—	—	—	—	·15	—	·02	·04	·13	—	4
5	·99	—	·12	·24	·02	—	—	—	·14	—	—	·02	5
6	1·14	—	·18	·51	·02	—	—	—	·26	—	—	—	6
7	·18	—	·54	·15	—	—	—	—	·45	·16	·01	—	7
8	—	—	—	·14	—	—	—	—	·11	·43	—	—	8
9	·13	·05	—	·65	·04	—	—	—	—	—	—	·05	9
10	·50	·02	—	·06	—	—	—	—	·51	·38	·01	·08	10
11	·03	·03	—	·08	·55	·23	·85	—	·19	—	·02	—	11
12	·39	—	—	—	·44	·02	·05	·03	·02	·41	·01	—	12
13	—	·03	—	·12	·11	—	·06	·03	·31	·54	·02	·23	13
14	·05	—	—	·01	—	—	·02	·01	·02	·11	·04	—	14
15	—	—	—	·04	·43	—	—	—	—	·19	·14	·11	15
16	·23	—	—	·08	·01	—	·04	—	—	·18	·01	·11	16
17	—	—	—	—	—	—	·09	·06	·03	·62	—	—	17
18	—	—	—	—	·08	—	—	—	—	—	·01	—	18
19	—	—	—	·16	·31	—	—	—	—	·36	—	—	19
20	—	—	—	·20	·48	—	·02	·24	—	·13	·12	—	20
21	·03	—	·24	·04	·33	—	·10	·24	—	·52	·10	·04	21
22	·02	—	·22	·14	·04	—	·11	—	—	·10	·83	·12	22
23	—	·01	—	·05	·30	—	·09	—	—	·08	·10	·08	23
24	·04	—	—	·03	·03	·01	·42	—	·22	—	·13	·01	24
25	—	·01	—	·09	·08	·01	·08	—	·05	·84	·21	—	25
26	—	—	—	·12	·23	—	·49	—	·05	·36	·24	—	26
27	—	—	·30	·15	·39	·12	·15	—	—	·05	·12	·13	27
28	—	—	·13	·04	·14	—	·14	—	—	—	—	·13	28
29	·05	—	·56	·13	·03	·11	·29	·44	·13	·88	·15	·31	29
30	—	×	·15	·01	—	·43	·10	·04	·02	·16	·35	·16	30
31	·01	×	·04	×	—	×	·09	—	×	—	×	·09	31
TOTAL	5·61	·14	2·54	3·48	4·64	·93	3·89	1·24	4·49	4·34	3·15	2·13	YEAR'S TOTAL 40·24
*Days with ·01 in. or more.	18	8	10	24	22	4	22	10	19	22	22	18	202
*Days with ·04 in. or more.	14	1	10	21	18	4	19	5	14	22	15	15	158

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*See Instruction 2 (*f*) on other side.

(*Signed*)

P.T.O.

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

Station No 2900

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1933 .

Kept at Hollingworth Lake (Littleborough)

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 610 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·04	·41	·02	—	—	—	—	·01	·06	—	·19	—.	1
2	·44	—	·19	·23	—	·41	—	·08	—	—	—	—	2
3	·01	·51	·31	—	·28	—	—	—	—	—	·02	—	3
4	·21	·18	·23	—	·14	—	—	—	—	—	—	—	4
5	·19	·16	·09	—	·14	—	—	—	—	—	·04	—	5
6	·03	·06	·01	—	·25	—	—	—	—	—	—	·06	6
7	·08	·38	·16	—	·11	—	·04	·02	—	·48	—	·03	7
8	·33	·13	·11	·02	·06	—	·29	·01	—	—	—	·08	8
9	—	·40	—	·29	·03	—	·44	·05	—	·64	·11	·01	9
10	·15	·05	—	—	—	·04	·01	—	—	1·12	·21	—	10
11	—	—	—	—	—	—	·90	—	—	·42	—	·01	11
12	·01	—	—	—	—	·22	·20	—	—	·04	—	·04	12
13	—	—	·03	—	·19	—	·42	—	·05	·20	·24	—	13
14	·26	—	·04	—	·15	—	·04	—	—	·03	·35	—	14
15	·41	—	·04	—	—	·01	·02	·04	—	·24	·58	·02	15
16	·16	·02	·14	·01	·04	·24	·02	—	—	·18	·05	—	16
17	·06	—	1·05	·01	—	·54	—	·11	·06	—	·23	—	17
18	·01	·02	·24	—	·05	·41	—	·09	—	—	·06	—	18
19	—	—	·44	·01	—	·43	—	—	·08	—	·08	·02	19
20	—	·13	—	—	—	—	—	·45	·10	—	—	—	20
21	—	—	—	—	—	·05	—	·56	·16	—	—	—	21
22	—	—	—	—	—	·14	—	·08	—	·04	—	—	22
23	—	·01	—	·34	·06	—	—	·04	·10	·01	—	—	23
24	—	·24	—	·18	·08	·24	—	—	·64	—	—	—	24
25	—	·32	—	·21	—	—	—	—	·26	—	·01	·05	25
26	—	·59	—	·46	—	—	—	—	—	·29	—	—	26
27	—	·02	—	·01	—	—	—	—	—	—	—	—	27
28	—	—	—	·11	—	—	·04	—	—	·20	—	—	28
29	—	×	—	·01	—	—	·04	—	—	·06	—	·04	29
30	·03	×	·03	·02	·25	—	·22	—	—	·24	—	·14	30
31	·36	×	·06	×	—	×	·26	·12	×	·14	×	—	31
TOTAL	2·84	3·93	3·28	1·91	1·86	3·36	3·36	1·69	1·51	4·45	2·14	·59	YEAR'S TOTAL 30·95
*Days with ·01 in. or more.	14	14	14	14	14	11	14	13	9	16	13	11	166
*Days with .04 in. or more.	12	13	13	6	13	10	11	10	9	14	11	6	128

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*See Instruction 2 (*f*) on other side,

D

(*Signed*)

P.T.O,

Section **A** for the entry of Daily Observations.

COPY FOR OFFICIAL USE.

Station No. 2900

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Hollingworth Lake (Littleborough)

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft 0 in.

,, Ground ,, Sea Level 610 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·15	–	·01	–	–	–	–	·06	–	·11	·04	·36		1
2	·01	·02	·10	–	·01	–	–	·49	·04	–	·14	·59		2
3	·10	·01	·02	–	–	–	–	·05	·03	·09	·04	·05		3
4	·14	–	·22	·09	·04	–	–	–	·05	·44	–	·58		4
5	–	–	·04	–	·10	–	–	·33	–	·45	·03	·23		5
6	–	–	·12	·08	·59	·11	–	·05	–	·26	–	·34		6
7	·30	·05	·18	·03	–	·01	–	–	–	·10	·31	·38		7
8	–	–	·04	–	·04	·38	–	·08	·02	·14	·42	·04		8
9	–	·05	·05	·04	–	–	–	·16	–	·05	·59	·01		9
10	–	·01	·36	·23	–	–	–	·14	–	·26	·12	–		10
11	·15	–	·09	·32	–	–	–	·11	–	·01	·03	·14		11
12	·01	–	·04	·31	–	–	·14	·04	–	·04	–	·04		12
13	·33	–	–	·05	·10	–	·10	·01	–	·20	–	–		13
14	·15	–	·14	–	·04	·01	–	–	–	·43	·04	·13		14
15	·45	–	·24	–	·63	–	–	·09	·66	–	·02	·24		15
16	·44	–	·14	–	·10	–	–	–	–	–	·05	·08		16
17	·41	–	·34	·01	·11	–	·13	–	·36	·04	–	·24		17
18	·34	–	·18	·12	·61	·15	·02	·03	–	–	–	·19		18
19	–	–	·33	–	·11	·42	–	–	·31	·14	–	·10		19
20	–	–	–	·12	·32	–	–	·04	·18	·14	·01	·03		20
21	·04	–	·02	–	·08	·48	–	·04	·03	·08	–	–		21
22	·04	–	·03	–	–	–	–	·19	·50	·12	–	–		22
23	·02	–	·04	·48	–	·01	·53	·05	–	·16	·03	·06		23
24	–	·22	·06	·12	–	·06	·04	–	·33	·21	–	–		24
25	·13	·04	–	·08	·02	–	·25	–	·20	·32	–	·43		25
26	·12	–	·04	·32	–	·14	·39	–	·35	·06	·04	·15		26
27	–	–	–	·20	–	·21	·42	–	·04	·46	·02	·30		27
28	–	–	–	·02	–	·22	·13	·14	–	·14	–	·60		28
29	–	×	·01	–	–	–	·10	·43	·41	·08	–	·09		29
30	·06	×	–	–	–	–	·09	·50	·14	·19	–	·08		30
31	·01	×	–	×	–	×	·53	–	×	·05	×	·15		31
													Year's Total	
TOTAL	3·49	·43	2·90	2·62	2·96	2·23	2·90	3·15	3·41	5·10	2·32	5·42	34·53 ✓	
*Days with ·01 in. or more.	20	4	24	14	15	12	13	20	16	24	16	26	213	
*Days with ·04 in. or more.	16	4	19	14	13	9	12	18	13	[illegible]	10	24	148	

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*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*)

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations. Station No. 2900

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1935.

Kept at Hollingworth Lake (Littleborough)
in the County of Lancashire
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft 0 in.
,, Ground ,, Sea Level 610 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·42	·31	·05	·03	–	–	·03	–	·04	·95	·20	·21		1
2	·01	·13	–	–	–	·22	·01	–	·10	·18	·05	·29		2
3	·06	·64	·12	·04	–	·03	·42	·04	·44	–	·14	·13		3
4	–	·01	·06	–	–	·24	·09	–	·41	·18	–	·02		4
5	–	·51	·18	·18	–	·68	·05	–	·13	·04	·15	·19		5
6	·01	–	–	·06	–	·42	–	–	–	–	–	·01		6
7	·01	–	–	·20	–	·26	–	–	–	·24	·18	·24		7
8	–	–	–	·11	–	·02	–	–	–	·21	·01	·43		8
9	·01	–	–	·53	–	·06	–	–	–	1·45	·16	–		9
10	–	·05	–	·30	–	·01	–	–	–	·40	·06	–		10
11	·42	·12	–	–	–	·12	–	–	–	·34	·11	·05		11
12	–	·14	–	–	–	·85	–	–	·05	·01	–	–		12
13	·11	·08	–	·09	·25	–	–	–	·05	·09	·01	–		13
14	–	–	–	·14	·08	·12	–	–	·10	–	1·13	·14		14
15	–	1·61	–	·32	·04	–	–	–	·42	·21	·15	·33		15
16	–	·34	·10	·25	·04	·30	·12	–	·44	–	·34	–		16
17	–	·03	–	·38	·35	·12	·02	–	·38	·03	·55	–		17
18	–	·02	–	·04	·05	·04	·32	–	·43	·41	·13	–		18
19	–	·04	–	·16	–	·24	·24	–	–	·08	·19	–		19
20	–	·63	–	·32	–	·16	·14	–	–	–	·34	–		20
21	–	·14	·01	·03	–	–	–	–	·94	·16	·18	·18		21
22	–	·13	·12	·01	–	–	–	–	·05	–	–	–		22
23	·01	–	·82	·25	–	–	–	·45	·03	·26	–	–		23
24	·40	·55	·02	–	–	–	–	–	1·54	·05	–	·12		24
25	·12	·06	·30	–	–	·19	–	–	–	–	·04	·03		25
26	–	–	–	–	–	–	·06	1·08	·52	·45	·22	·14		26
27	–	·08	–	–	–	·09	·33	–	·34	·88	·40	·11		27
28	·03	·04	–	–	·02	–	–	–	·09	·34	·11	·01		28
29	–	×	·04	–	–	–	–	–	·15	·48	·04	·23		29
30	·05	×	–	–	–	·14	–	·16	·49	·59	·64	·11		30
31	·02	×	·02	×	–	×	–	–	×	·22	×	·25		31
TOTAL	1·68	5·42	1·84	3·50	·86	4·34	1·83	1·43	4·44	8·64	5·68	3·31	Year's Total 46·66	
*Days with ·01 in. or more.	14	21	12	19	4	20	12	4	21	24	24	20	198	
*Days with ·04 in. or more.	4	18	9	16	6	14	9	4	20	22	22	16	166	

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*See Instruction 2 (*f*) on other side.

† Spare column, no entries required.

(*Signed*) Elias J. Battey.

[P.T.O.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.

Station No. 2900

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1936.

Kept at Hollingworth Lake (Littleborough).
in the County of Lancashire
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 610 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·02	·11	·04	·22	–	·04	–	·28	·05	–	·24	·31		1
2	·02	·03	·02	·04	–	·48	–	·16	·03	–	·03	·13		2
3	·03	–	–	–	–	·54	·03	·16	·63	–	–	·11		3
4	·34	·15	·23	–	–	·02	–	·05	·48	–	·25	·32		4
5	·04	·02	·50	–	–	–	–	·14	·36	·01	·13	·29		5
6	·13	–	·04	–	–	·01	·10	·45	·64	–	·18	–		6
7	–	–	·09	–	–	–	·18	–	·95	–	·15	·21		7
8	·36	–	·14	–	–	–	–	–	·02	·01	·48	·19		8
9	·24	–	·03	–	–	–	·01	–	·09	–	·84	·01		9
10	·10	–	–	–	–	–	·43	–	–	–	1.02	–		10
11	–	–	–	–	–	·14	·20	·01	·02	–	·59	·03		11
12	–	–	–	·04	·04	·41	·51	·04	·39	·04	·28	·03		12
13	·03	–	–	·09	·02	·01	·04	–	–	·33	·01	·53		13
14	–	–	–	·11	–	·30	·10	·04	·58	·14	·23	·65		14
15	·16	–	·04	·08	·01	·13	·19	·95	·10	–	·44	·13		15
16	–	·05	·01	·02	–	–	·02	–	–	·04	·45	–		16
17	·04	·29	·01	–	·03	–	·20	·14	–	·45	·05	·18		17
18	–	·03	–	·01	–	·04	·16	·08	–	·93	–	·03		18
19	·14	·33	·03	·02	–	·11	·12	·25	–	·09	–	–		19
20	·20	·04	–	–	–	–	·01	–	–	·02	–	·01		20
21	·10	–	·04	·06	–	–	–	–	–	·05	–	–		21
22	·14	·29	·03	·02	·01	1·92	·10	–	–	·01	–	·06		22
23	–	·03	·22	·21	·06	–	·54	·01	–	·06	–	–		23
24	·10	·04	–	·04	·39	–	–	·05	·16	·41	–	·06		24
25	·18	–	·01	·04	–	·03	·09	–	·30	·19	–	·02		25
26	·02	·24	·15	·06	–	–	–	–	·05	·45	·01	–		26
27	·65	–	·04	–	–	–	–	–	·15	·24	–	–		27
28	·62	·48	·04	–	–	–	·12	–	–	–	–	·18		28
29	·10	·22	·46	–	·16	·45	–	–	–	·09	·18	·04		29
30	·24	✕	·04	–	·52	·04	·22	–	–	·62	·10	·03		30
31	·03	✕	·01	✕	·01	✕	·08	–	✕	–	✕	·40		31
													Year's Total	
TOTAL	14·12	2·38	2·58	1·15	1·25	5·06	3·48	2·84	5.03	5·14	5·99	3·98	43·36	✓
* Days with .01 in. or more.	24	15	22	15	10	16	21	15	14	19	19	23	216	✓
* Days with .04 in. or more.	18	11	14	11	5	12	14	13	14	15	16	16	162	✓

40-9999.

† Spare column, no entries required.

(*Signed*) .... [P.T.O.

* See Instruction 2 (f) on other side.

COPY FOR OFFICIAL USE.

Section **A** for the entry of Daily Observations.
Station No 2900

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION.

FORM 1090.

REGISTER OF RAINFALL IN 1934.

Kept at Hollingworth Lake (Littleborough)
in the County of Lancashire
Diameter of Funnel of Gauge 8 in.
Height of top of Gauge above Ground 1 ft. 0 in.
,, Ground ,, Sea Level 610 ft.

THE MORNING MEASUREMENT IS CREDITED TO THE PREVIOUS DAY.

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following: ✓

Please read the Notes and Instructions Overleaf.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		*Date*
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·04	·18	·08	—	—	—	·02	—	·49	—	—	·16		1
2	·34	·33	·11	·10	—	—	·04	—	·03	·02	—	·09		2
3	—	·12	·05	·03	·04	·66	·02	—	·02	—	—	·02		3
4	·24	·01	·04	·19	·11	—	·02	·03	—	—	—	·64		4
5	1·26	—	·08	—	—	—	·03	—	·02	—	—	·02		5
6	·08	—	·02	·08	·06	—	—	·45	·03	—	·03	·04		6
7	·04	·33	—	·36	·05	·04	—	—	·04	—	—	·02		7
8	—	·43	—	·03	—	·20	·04	—	—	—	·02	·02		8
9	·03	·19	—	·04	·15	—	·36	·46	—	—	—	—		9
10	·02	·09	—	—	·04	—	·01	—	—	·01	—	·35		10
11	—	—	·50	—	·13	—	—	—	—	—	—	·02		11
12	·13	·34	·11	·02	·05	·03	·05	·24	·22	—	—	·24		12
13	—	·14	·10	·01	·03	·45	—	·13	·03	—	—	·14		13
14	—	·10	·13	—	—	—	—	·22	·11	—	—	·14		14
15	·39	·46	—	·34	—	—	·46	—	·20	—	—	·03		15
16	·14	·58	·08	·25	·02	—	—	·16	·15	—	—	·02		16
17	·04	·03	·34	·06	—	·03	—	·03	·14	—	—	—		17
18	·24	·30	·19	·11	—	—	—	·32	·12	—	·36	—		18
19	·12	·24	—	·19	·01	·13	·06	·03	—	—	·60	—		19
20	·08	·15	—	·10	·48	·01	—	—	—	—	—	·03		20
21	·03	·06	·02	·10	—	—	·38	—	—	—	—	·32		21
22	·04	—	·14	·05	·03	—	·24	—	—	·41	·13	·14		22
23	·06	—	—	—	·28	—	·16	—	—	·56	·31	—		23
24	·04	·26	·13	—	·05	—	·03	—	·12	·08	—	·06		24
25	·04	·51	—	—	—	—	—	·02	—	·09	—	·02		25
26	—	·31	·06	—	·61	—	—	·10	·08	—	—	·10		26
27	—	·35	—	·13	—	—	—	—	—	·44	—	·03		27
28	—	·19	—	—	—	·04	—	—	—	·12	—	—		28
29	—	X	—	—	—	—	—	—	—	·02	·14	—		29
30	·05	X	—	—	—	·24	—	·29	—	·12	·40	·03		30
31	·35	X	—	X	·02	X	—	·06	X	·10	X	—		31
													Year's Total	
TOTAL	3·98	5·43	2·18	2·19	2·16	2·16	1·95	2·54	1·86	1·94	2·29	2·44	31·48	✓
* Days with .01 in. or more.	22	23	14	18	16	10	15	14	15	11	8	23	192	✓
* Days with .04 in. or more.	19	21	15	14	12	4	9	10	10	8	6	12	143	✓

40-9999.

* See Instruction 2 (f) on other side.

† Spare column, no entries required.

(*Signed*) Chas. J. Oakley.

[P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2900

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1938.

Kept at Hollingworth Lake (Littleborough)

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

" Ground " Sea Level 610 ft.

OLDHAM & ROCHD… ENGINEER'S OFFICE
- 4. JAN 1939

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	†	Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
1	—	·04	—	·04	—	·68	·05	·04	—	—	·15	·26		1
2	·04	·06	—	·45	·14	·44	·01	—	—	1·23	·13	·35		2
3	·01	—	—	—	—	·06	·06	—	·14	1·46	·29	·05		3
4	·02	—	—	·05	—	·02	·30	·24	—	·33	·36	·99		4
5	·01	·02	—	·06	—	·06	·41	1·01	·02	·64	·01	·10		5
6	·16	—	—	—	—	·05	·30	—	·05	·31	—	·01		6
7	·31	—	—	—	—	—	·38	—	·22	·30	—	—		7
8	·41	·01	—	—	—	—	·44	·02	—	1·05	—	·24		8
9	·18	·42	·11	—	—	·18	·24	·03	—	·12	—	·33		9
10	—	·13	·02	—	—	·05	·64	—	—	·11	—	·04		10
11	·15	·05	—	—	·01	·01	·20	·05	·02	·08	·15	·06		11
12	·29	—	—	—	·21	—	—	·34	—	1·12	·16	—		12
13	·01	—	—	—	·01	—	·05	—	·04	·49	·34	·26		13
14	·20	·04	—	—	·15	—	·16	—	·03	·02	·16	·04		14
15	·40	—	·02	—	—	—	·26	·28	—	·04	—	·25		15
16	·94	—	·06	—	·19	—	·22	·24	—	·09	·08	·20		16
17	—	·01	—	—	·22	—	·15	·15	·04	·46	·03	·05		17
18	·11	—	—	—	·04	·06	—	·33	·12	·53	·26	—		18
19	—	—	—	—	—	·01	—	·24	·12	—	—	·04		19
20	·21	—	—	—	—	—	—	·04	·06	—	·44	·01		20
21	·02	—	·08	—	—	—	—	·02	—	—	·05	—		21
22	—	—	—	·02	—	·24	—	—	—	—	·35	·03		22
23	·01	—	—	—	·14	·53	—	—	·02	—	·63	·02		23
24	·09	·01	·20	—	·08	·14	·46	·49	·06	—	·25	—		24
25	·29	·45	·06	—	·01	·09	·16	·02	—	·48	·66	·06		25
26	·20	·49	·14	—	·04	·08	—	—	·06	·24	·16	·04		26
27	·34	·23	·01	—	·68	·98	·19	·16	—	·01	·46	—		27
28	·33	·15	·16	—	·28	·44	·09	·25	·14	·03	·05	·11		28
29	·09	×	·14	—	1·03	·33	·14	—	—	·15	·10	·34		29
30	·31	×	—	—	·14	·21	·03	—	·32	·01	·32	·19		30
31	·24	×	·04	×	·34	×	—	—	×	·49	×	·94		31
TOTAL	5·40	2·11	1·10	·62	3·44	5·05	4·94	3·98	1·55	9·85	5·65	5·10	Year's Total 49·15	✓
* Days with .01 in. or more.	26	14	12	5	14	20	22	18	16	24	23	25	222	✓
* Days with .04 in. or more.	20	10	9	4	14	14	20	14	12	20	21	21	182	✓

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) ……………………………………… [P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2900

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 1939

Kept at Hollingworth Lake (Littleborough)

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 610 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	·24	–	·28	·04	–	–	·01	·13	·06	·01	–	·54		1
2	·05	–	·03	·05	–	–	·60	·54	·74	·02	·05	·15		2
3	–	–	–	·06	–	–	–	·11	·01	–	·03	·63		3
4	·08	–	·36	·48	–	–	·45	–	–	·02	·02	·77		4
5	–	–	–	–	·51	–	·39	·07	–	·11	·29	·04		5
6	·59	·19	·02	–	–	–	·66	–	–	–	·33	–		6
7	·34	·46	·22	–	·21	–	·04	–	–	–	·12	·18		7
8	·40	·14	·31	·01	–	–	·42	·12	–	·07	·21	·54		8
9	·10	·56	–	–	–	–	·08	·31	–	·44	·09	·60		9
10	·11	·02	–	–	–	·09	–	·55	·50	·11	·03	·10		10
11	·62	·05	·22	–	–	·16	–	·04	·01	·01	–	·01		11
12	·28	·14	–	–	–	·24	–	–	–	–	–	–		12
13	·08	–	·01	·33	·10	·13	·04	–	·04	·03	·01	–		13
14	·62	–	·02	·03	·32	·44	·38	–	–	·03	·28	–		14
15	·16	·04	·02	·63	·09	1·02	·10	–	·02	–	·11	–		15
16	·16	–	·08	–	·26	–	–	–	–	–	·06	–		16
17	·58	·30	·01	·06	·06	·01	·05	–	–	·22	·06	–		17
18	·06	·24	·02	–	–	·16	·14	–	–	–	·70	–		18
19	·22	–	·01	–	–	–	·21	–	–	–	–	–		19
20	·01	–	·01	–	·02	·15	·19	–	·01	–	–	–		20
21	·09	·10	·45	·11	·19	–	–	·01	·05	–	–	–		21
22	·10	·25	·11	–	·01	–	·10	–	–	·03	·58	–		22
23	·03	·43	·05	·13	–	–	·03	–	–	·49	·23	·04		23
24	·01	·04	·04	·08	–	·05	–	–	–	·03	·01	–		24
25	·10	·28	–	–	–	·05	–	–	–	–	1·57	–		25
26	·03	·03	–	–	·01	–	–	·75	–	·19	·68	·01		26
27	·05	1·56	·33	–	–	·28	·08	·04	–	·10	·31	·06		27
28	·01	·16	·21	·02	–	·42	·55	–	–	–	·87	–		28
29	–	×	·01	–	–	–	1·28	–	–	·32	·44	–		29
30	–	✕	–	–	–	·10	·14	–	–	–	·29	–		30
31	–	✕	–	✕	–	✕	·15	–	✕	·02	✕	–		31
													Year's Total	
TOTAL	5·15	5·05	2·85	2·03	1·48	3·36	6·48	2·67	1·44	2·25	7·37	3·67	44·40	
* Days with .01 in. or more.	26	18	22	13	11	14	22	11	9	18	24	13	201	
* Days with .04 in. or more.	21	16	12	10	8	13	20	10	5	9	19	11	154	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) ....

P.T.O.

COPY FOR OFFICIAL USE

Section **A** for the entry of Daily Observations

Station No. 2900

AIR MINISTRY.—METEOROLOGICAL OFFICE.—BRITISH RAINFALL ORGANIZATION

FORM 1090

REGISTER OF RAINFALL IN 19~~3~~40.

Kept at Hollingworth Lake (Littleborough)

in the County of Lancashire

Diameter of Funnel of Gauge 8 in.

Height of top of Gauge above Ground 1 ft. 0 in.

,, Ground ,, Sea Level 610 ft.

THE MORNING MEASUREMENT SHOULD BE ENTERED TO THE PREVIOUS DAY

An observer who does not conform to this rule should insert the reading made on January 1st of the following year in the space on the right of this paragraph.

Jan. 1, following

Please read the Notes and Instructions Overleaf

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Date
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	†	
1	–	·02	–	·24	–	–	–	–	·02	–	·59	·24		1
2	–	–	–	·14	–	–	·09	–	–	–	·50	·15		2
3	·04	·03	–	·14	–	–	·08	–	–	·09	·04	·22		3
4	–	·06	–	·09	–	–	·08	–	–	·28	·25	·21		4
5	–	·01	–	–	·14	–	·05	–	–	·62	·08	·46		5
6	·05	·11	–	–	–	–	·03	–	–	·68	·04	·10		6
7	·16	·18	–	·19	·15	–	·01	·23	·11	·03	·01	–		7
8	–	–	·01	·02	–	–	–	·02	–	·24	·06	·25		8
9	–	–	·19	–	–	–	1·01	·26	·28	·63	1·06	·16		9
10	–	–	·04	–	–	–	·30	·42	·04	·13	·64	·52		10
11	–	·02	·08	·05	–	·06	·45	–	–	–	1·35	·05		11
12	–	·02	·56	–	–	–	·18	·04	·44	–	·34	–		12
13	–	·01	·04	·01	–	–	–	·06	·42	–	·04	–		13
14	–	·05	–	·25	·11	–	·04	·10	·10	–	·08	·58		14
15	–	–	·04	–	·08	·02	–	–	·01	·01	·05	·04		15
16	·02	·01	·04	·10	–	–	·41	–	1·42	·30	·14	·06		16
17	–	–	·55	–	·03	–	·24	–	·16	–	·44	·01		17
18	·06	·12	·24	·43	–	–	·02	·30	·19	–	–	·29		18
19	–	·13	·22	·04	–	–	·55	–	·36	·01	·28	–		19
20	–	·05	·04	·24	–	–	·54	·48	·19	·15	·16	–		20
21	–	–	·33	·01	–	·24	·09	·08	–	·11	·44	–		21
22	–	·03	·08	–	·04	·15	–	·03	·52	·01	–	·01		22
23	–	·23	·06	·10	·02	–	·13	–	·04	·03	·16	–		23
24	·44	–	·01	·05	–	–	–	–	–	·01	–	·06		24
25	·08	–	–	–	·01	·05	–	–	–	·04	–	–		25
26	·42	·11	·03	–	·04	·06	·02	–	·01	–	·03	–		26
27	·20	·29	–	·05	–	–	·41	–	–	–	·06	–		27
·85 28	·08	·43	–	–	·31	–	–	·13	–	–	–	·02		28
29	–	–	·28	–	–	·34	·01	–	–	·02	–	·64		29
30	–	✕	–	·14	–	–	–	–	–	·41	·01	·24		30
31	·04	✕	·16	✕	·02	✕	–	·04	✕	·43	✕	·01		31
TOTAL	1·65	1·91	3·09	2·38	·98	·92	5·04	2·19	4·34	4·59	4·24	4·41	Year's Total 38·83	
* Days with .01 in. or more.	11	19	19	18	11	4	21	13	16	20	24	21	200	
* Days with .04 in. or more.	10	11	16	15	4	6	16	11	13	13	21	14	156	

† Spare column, no entries required.

* See Instruction 3 (f) on other side.

(*Signed*) Charles Unsfield

[P.T.O.